



intusoft Model Library Listings

A MESSAGE ABOUT THE IMPORTANCE OF COMPREHENSIVE,
ACCURATE, AND WELL-DOCUMENTED MODEL LIBRARIES

Intusoft prides itself on having the most comprehensive SPICE model library in the industry. While many companies offer model libraries with lots of parts, the user will invariably find that more than half of the models are for diodes or BJT's. Fortunately, we realize that engineers design circuits with more than just diodes and transistors. In our library you'll find a wide variety of part types, in addition to industry standard devices. Intusoft models the full spectrum of an engineer's toolbox; from current feedback op-amps to lasers to digital gates to analog behavioral models to vacuum tubes.

In addition to commonly used parts, there are a large number of models available in a "generic" template format. These powerful generic models convert data sheet parameters directly into SPICE parameters. There are no complex calculations, mathematical expressions, or parameter tweaking. The conversion process is automatic. With Intusoft's generic models, even if the specific part you need is not listed in our library, you will be able to generate a model with great ease.

At Intusoft, we strive for quality over quantity. Thousands of models are useless unless your type of device and its model are available, tested, and properly documented.

There are major differences in the model libraries supplied by various CAE software vendors. Major differences that can dramatically effect the results of your simulation. Models are one of the most important parts of a simulation package. We encourage you to compare our libraries and documentation with other vendors and ask questions. Samples of all of our models are available. And be assured,

price has very little to do with model quality. The expensive libraries provided by various vendors aren't better, they're just more expensive.

At Intusoft, quality is paramount. You'll never see a device model without the essential parameters, even ones that are hard to calculate. Intusoft's models for complex parts, which many CAE vendors model with simple SPICE elements, utilize a subcircuit macro approach or sophisticated AHDL. Each model type is explained in depth and fully tested. Schematics, netlists, model limitations, and the theory behind the model development are all presented in clear, easy-to-understand documentation. You'll never see a reference to an obscure technical article in lieu of proper documentation.

Our policy is that all models and library structures are provided in an open architecture. All of our models are stored in simple ASCII files. They can be viewed and changed by the user. Additions or alterations to the library are simple.

Intusoft also realizes that your modeling needs don't end with the purchase of our software. In fact, they just begin. That's why we provide a free bimonthly newsletter containing SPICE models, application notes, and simulation tips. In addition, if you need a model for a specific device that is not represented in our library, we will either provide you with all the information needed to create the model or we will model the device for you. At No Charge. With Intusoft, modeling and applications support is just an e-mail call away.

--- Don't be swayed by numbers or price. Variety, Quality, and Support are what counts !!

SPICE Models At A Reasonable Cost

Every day Intusoft proves it's really not necessary to pay outrageous prices to get an extensive, high quality model library capable of simulating thousands of electronic components.

Most of Intusoft's models are Berkeley SPICE 2 or SPICE 3 compatible and will run with many other SPICE simulators. Both PC and Macintosh platforms are supported. The current list of model types available from Intusoft consists of:

Standard Semiconductor Devices

Diodes (PN, Rectifier, PIN, Switching, Schottky, Varactor, Zener, GaAs, Bridge, Photo, Laser, JFET Regulators),
BJT Transistors (NPN, PNP, RF), Darlington Transistors
JFETs, MOSFETs, Dual-Gate MOSFETs

Power Electronic Devices and Magnetic Models

Magnetic Cores, Pulse Width Modulator ICs (Switch level and State Space), SCRs, Triacs, Transformers, IGBTs, Power MOSFETs, Power BJTs, Power Mosfet Drivers, Voltage Regulators, Varistors, UJTs, PUTs

Op-amp and Other IC Models

Bipolar and JFET Op-amps (Nonlinear and Linear versions), High Speed Current Feedback Op-amps, Comparators, Multipliers, Voltage References, Isolation and Instrumentation Amps, Buffers (Plus models from Advanced Linear Devices, Analog Devices, Apex, Burr-Brown, Comlinear, Elantec, Harris, Maxim, Motorola, National Semiconductor, Linear Technology, SGS-Thomson, Texas Instruments)

Analog Behavioral Models

If-Then-Else, Table, Z and S Domain Functions, Integrators, Differentiators, Limiters, Summers, Multipliers, Divider, Ideal Filters, Math functions

Digital Elements (for Mixed Mode Simulation)

Digital Primitives with Timing (logic gates, State Machine, Flip-Flops, Oscillators, Latches, Sources, Frequency divider
Boolean Logic Gates, Exact Transistor Gates (TTL, CMOS, HC/HCT), I/O Stages for PCB Studies (TTL, ALS, ABT, FAST, ECL, MECL)
IBIS Models(SPICE 2 and SPICE 3)

RF / Microwave Models

BJT, GaAs MESFET, MMICs, PIN Diodes, Beads, Chokes, Couplers

Switched Capacitor Models

IC Filters, Integrators, Storisitors, Switches

Sources (in addition to those in IsSPICE)

Sawtooth, Random Noise, Pink Noise, AM, FM, 3 Phase, VCOs, Variable Phase, Arbitrary Waveforms, PSK, FSK, NTSC, IEEE Test Waveforms

Miscellaneous

Nonideal Switches, Analog Switches, Crystals, Transmission Line Models, Coaxial Cables, Microstrip, Servos, Opto-Isolators, Connectors, Potentiometers, Voltage Controlled Impedances, Vacuum Tube Triodes and Pentodes, Hall Effect Sensors, Pressure Sensors

Thermal Analysis

Thermistor, BJT/Diode Thermal Model, Light Bulb, Thermal cell, Fuses

Miscellaneous

Mechanical Models, Neural Network, Fuzzy Logic

Foreign Parts

Libraries include parts from U.S., European, and Asia-Pacific vendors

Getting SPICE Models

Intusoft has several ways to help you get or create SPICE models:

CMSDK - HDL Model Development Kit
Power Library - Models listed on page 33
RF Device Library - Models listed on pages 21 - 23
Vendor Supplied IC Models - Listed on pages 34 - 36
ICAP/4 Libraries - All other models listed in this document

There are also other ways to obtain SPICE models:

Intusoft Technical Support Staff
SPICEMOD - Modeling Spreadsheet Program

Generic Template Models

These unique models contain equations based on data sheet parameters. Using these equations, IsSPICE can convert the data sheet parameters you specify directly into model parameters. This capability allows the designer to always obtain a model even if the actual component is not directly listed in the libraries. These models are invaluable when performing "What-if" simulations or when models are needed for obscure or hard-to-model components. For example, using six commonly available data sheet parameters and Intusoft's Generic Op-amp model, hundreds of different op-amps can be simulated.

Generic Models [50+]

Description

Bipolar Op-amps - (Similar to UA741)
Capacitor (Voltage Controlled)
Coaxial Cable
Crosstalk Model
Crystal (with temperature effects)
Current Feedback Op-amp - (Similar to CLC401)
Differentiation
Diodes, Rectifier/Switching
FET Op-amp - (Similar to LF156)
Fuse (Slow, Normal and Fast Blow)
GaAs FET
Ground Plane Coupling Model
Hysteresis Block
Inductor (Voltage Controlled)
Laplace Expressions
Limiter blocks
N Channel JFET
NPN/PNP Bipolar Transistors
NPN Bipolar Power Transistor
Potentiometer (Voltage Controlled)
Pressure Sensor
Pulse Width Modulator
Resistor (Voltage Controlled)
Saturable Magnetic Core
SCRs and Triacs
Short and Long LC Transmission Line
Signal Generators

Generic Models, Continued

Slew Rate Block
State Machines
Switches (Voltage/Current Controlled)
Table Models
Thermal Models (Diode, BJT)
Thermistor (Positive/Negative TC)
Transformer, Single
Transformer, Center-Tapped
Tungsten Lamp
Vacuum Tube Triodes & Pentodes
VCOs
Zener Diode (Low/High Voltages)

* New AHDL models in Bold

Data Sheet Parameters Required By The Generic Op-Amp Models

For Bipolar and JFET Input Op-Amps

VOS Input Offset Voltage
IOS Input Offset Current
IBIAS Input Bias Current
FT Gain Bandwidth
DVDT Slew Rate
GAIN DC Gain

For Current Feedback Op-Amps

RF Feedback Resistor in Ohms
FC -3db bandwidth in Hz
DVDT Slew Rate in Volts/Sec

Standard Electronic Devices - Diodes

(# of Diodes - 1366)

Intusoft's device libraries contain a wide variety of commonly used electronic components. The list of standard parts is always growing as new component models are continuously added. Intusoft's technical support services are always ready to assist the customer in modeling tasks, as well as the generation of custom models.

Legend
Mot - Motorola
Uni - Unitrode
Sili - Siliconix
Phil - Philips
Siem - Siemens
HP - Hewlett-Packard
Nat - National
I.R. - Intl. Rectifier
Specs. - Max. Voltage and Max. Power or Current

Zener Diodes [657]

Part #	Mfr.	Specs.
02BZ2_2	Tosh	2.2V 250mW
02BZ2_7	Tosh	2.7V 250mW
02BZ3_3	Tosh	3.3V 250mW
02BZ3_9	Tosh	3.9V 250mW
02BZ4_7	Tosh	4.7V 250mW
02CZ10	Tosh	10V 200mW
02CZ11	Tosh	11V 200mW
02CZ12	Tosh	12V 200mW
02CZ13	Tosh	13V 200mW
02CZ15	Tosh	15V 200mW
02CZ16	Tosh	16V 200mW
02CZ18	Tosh	18V 200mW
02CZ20	Tosh	20V 200mW
02CZ22	Tosh	22V 200mW
02CZ24	Tosh	24V 200mW
02CZ27	Tosh	27V 200mW
02CZ2_0	Tosh	2.0V 200mW
02CZ2_2	Tosh	2.2V 200mW
02CZ2_4	Tosh	2.4V 200mW
02CZ2_7	Tosh	2.7V 200mW
02CZ30	Tosh	30V 200mW
02CZ33	Tosh	33V 200mW
02CZ36	Tosh	36V 200mW
02CZ39	Tosh	39V 200mW
02CZ3_0	Tosh	3.0V 200mW
02CZ3_3	Tosh	3.3V 200mW
02CZ3_6	Tosh	3.6V 200mW
02CZ3_9	Tosh	3.9V 200mW
02CZ4_3	Tosh	4.3V 200mW
02CZ4_7	Tosh	4.7V 200mW
02CZ5_1	Tosh	5.1V 200mW
02CZ5_6	Tosh	5.6V 200mW
02CZ6_2	Tosh	6.2V 200mW
02CZ6_8	Tosh	6.8V 200mW
02CZ7_5	Tosh	7.5V 200mW
02CZ8_2	Tosh	8.2V 200mW
02CZ9_1	Tosh	9.1V 200mW
02Z10A	Tosh	V 250mW
02Z11A	Tosh	11V 250mW
02Z12A	Tosh	12V 250mW
02Z13A	Tosh	13V 250mW
02Z15A	Tosh	15V 250mW
02Z16A	Tosh	16V 250mW
02Z18A	Tosh	18V 250mW
02Z20A	Tosh	20V 250mW
02Z22A	Tosh	22V 250mW
02Z24A	Tosh	24V 250mW
02Z5_6A	Tosh	5.6V 250mW
02Z6_2A	Tosh	6.2V 250mW
02Z6_8A	Tosh	6.8V 250mW
02Z7_5A	Tosh	7.5V 250mW
02Z8_2A	Tosh	8.2V 250mW
02Z9_1A	Tosh	9.1V 250mW
04AZ10	Tosh	10V .4W
04AZ11	Tosh	11V .4W
04AZ12	Tosh	12V .4W
04AZ13	Tosh	13V .4W
04AZ15	Tosh	15V .4W
04AZ16	Tosh	16V .4W
04AZ18	Tosh	18V .4W
04AZ20	Tosh	20V .4W
04AZ22	Tosh	22V .4W
04AZ24	Tosh	24V .4W
04AZ27	Tosh	27V .4W
04AZ2_0	Tosh	2.0V .4W
04AZ2_2	Tosh	2.2V .4W
04AZ2_4	Tosh	2.4V .4W
04AZ2_7	Tosh	2.7V .4W
04AZ30	Tosh	30V .4W
04AZ33	Tosh	33V .4W
04AZ36	Tosh	36V .4W
04AZ39	Tosh	39V .4W
04AZ3_0	Tosh	3.0V .4W
04AZ3_3	Tosh	3.3V .4W
04AZ3_6	Tosh	3.6V .4W
04AZ3_9	Tosh	3.9V .4W
04AZ4_3	Tosh	4.3V .4W
04AZ4_7	Tosh	4.7V .4W
04AZ5_1	Tosh	5.1V .4W
04AZ5_6	Tosh	5.6V .4W
04AZ6_2	Tosh	6.2V .4W
04AZ6_8	Tosh	6.8V .4W
04AZ7_5	Tosh	7.5V .4W
04AZ8_2	Tosh	8.2V .4W
04AZ9_1	Tosh	9.1V .4W
05AZ10	Tosh	10V .5W
05AZ100	Tosh	100V .5W
05AZ11	Tosh	11V .5W
05AZ12	Tosh	12V .5W
05AZ13	Tosh	13V .5W
05AZ15	Tosh	15V .5W
05AZ16	Tosh	16V .5W
05AZ18	Tosh	18V .5W
05AZ20	Tosh	20V .5W
05AZ22	Tosh	22V .5W
05AZ24	Tosh	24V .5W
05AZ27	Tosh	27V .5W
05AZ2_4	Tosh	2.4V .5W
05AZ2_7	Tosh	2.7V .5W
05AZ30	Tosh	30V .5W
05AZ33	Tosh	33V .5W
05AZ36	Tosh	36V .5W
05AZ39	Tosh	39V .5W
05AZ3_0	Tosh	3.0V .5W
05AZ3_3	Tosh	3.3V .5W
05AZ3_6	Tosh	3.6V .5W
05AZ3_9	Tosh	3.9V .5W
05AZ40	Tosh	40V .5W
05AZ47	Tosh	47V .5W

05AZ4_3	Tosh	4.3V .5W
05AZ4_7	Tosh	4.7V .5W
05AZ51	Tosh	51V .5W
05AZ56	Tosh	56V .5W
05AZ5_1	Tosh	5.1V .5W
05AZ5_6	Tosh	5.6V .5W
05AZ62	Tosh	62V .5W
05AZ68	Tosh	68V .5W
05AZ6_2	Tosh	6.2V .5W
05AZ6_8	Tosh	6.8V .5W
05AZ75	Tosh	75V .5W
05AZ7_5	Tosh	7.5V .5W
05AZ82	Tosh	82V .5W
05AZ8_2	Tosh	8.2V .5W
05AZ91	Tosh	91V .5W
05AZ9_1	Tosh	9.1V .5W
1AZ10	Tosh	10V .5W
1AZ11	Tosh	11V 1W
1AZ12	Tosh	12V 1W
1AZ13	Tosh	13V 1W
1AZ15	Tosh	15V 1W
1AZ16	Tosh	16V 1W
1AZ18	Tosh	18V 1W
1AZ20	Tosh	20V 1W
1AZ200	Tosh	200V 1W
1AZ200Y	Tosh	200V 1W
1AZ22	Tosh	22V 1W
1AZ220Z	Tosh	220V 1W
1AZ24	Tosh	24V 1W
1AZ240	Tosh	240V 1W
1AZ240Y	Tosh	240V 1W
1AZ240Z	Tosh	240V 1W
1AZ27	Tosh	27V 1W
1AZ270	Tosh	270V 1W
1AZ270X	Tosh	270V 1W
1AZ270Y	Tosh	270V 1W
1AZ270Z	Tosh	270V 1W
1AZ30	Tosh	30V 1W
1AZ300	Tosh	300V 1W
1AZ300X	Tosh	300V 1W
1AZ300Y	Tosh	300V 1W
1AZ300Z	Tosh	300V 1W
1AZ33	Tosh	33V 1W
1AZ330	Tosh	30V 1W
1AZ330X	Tosh	30V 1W
1AZ330Y	Tosh	30V 1W
1AZ330Z	Tosh	30V 1W
1AZ36	Tosh	36V 1W
1AZ47	Tosh	47V 1W
1AZ51	Tosh	51V 1W
1AZ6_8	Tosh	6.8V 1W
1AZ7_5	Tosh	7.5V 1W
1AZ8_2	Tosh	8.2V 1W
1AZ9_1	Tosh	9.1V 1W
1N1530	Mot	8.4V .25W
1N1735	Mot	6.2V .2W
1N1736	Mot	12.4V .4W
1N1737	Mot	18.6V .6W
1N1738	Mot	24.6V .8W
1N1739	Mot	31V 1W
1N1740	Mot	37.2V 1.2W
1N1741	Mot	43.4V 1.4W
1N1742	Mot	49.6V 1.6W
1N2970A	Mot	6.8V 10W
1N2971A	Mot	7.5V 10W
1N2972A	Mot	8.2V 10W
1N2973A	Mot	9.1V 10W
1N2974A	Mot	10V 10W
1N2975A	Mot	11V 10W
1N2976A	Mot	12V 10W
1N2977A	Mot	13V 10W
1N2978A	Mot	14V 10W
1N2979A	Mot	15V 10W
1N2980A	Mot	16V 10W
1N2982A	Mot	18V 10W

1N2983A	Mot	19V 10W
1N2984A	Mot	20V 10W
1N2985A	Mot	22V 10W
1N2986A	Mot	24V 10W
1N2988A	Mot	27V 10W
1N2989A	Mot	30V 10W
1N2990A	Mot	33V 10W
1N2991A	Mot	36V 10W
1N2992A	Mot	30V 10W
1N2993A	Mot	43V 10W
1N2995A	Mot	47V 10W
1N2996A	Mot	50V 10W
1N2997A	Mot	51V 10W
1N2998A	Mot	52V 10W
1N2999A	Mot	56V 10W
1N3000A	Mot	62V 10W
1N3001A	Mot	68V 10W
1N3002A	Mot	75V 10W
1N3003A	Mot	82V 10W
1N3004A	Mot	91V 10W
1N3005A	Mot	100V 10W
1N3006A	Mot	105V 10W
1N3007A	Mot	110V 10W
1N3008A	Mot	120V 10W
1N3009A	Mot	130V 10W
1N3010A	Mot	140V 10W
1N3011A	Mot	150V 10W
1N3012A	Mot	160V 10W
1N3014A	Mot	180V 10W
1N3015A	Mot	200V 10W
1N4057	Mot	12.4V 1.5W
1N4058	Mot	14.6V 1.5W
1N4059	Mot	16.8V 1.5W
1N4060	Mot	18.5V 1.5W
1N4061	Mot	21V 1.5W
1N4062	Mot	23V 1.5W
1N4063	Mot	27V 1.5W
1N4064	Mot	30V 1.5W
1N4065	Mot	33V 1.5W
1N4066	Mot	37V 1.5W
1N4067	Mot	43V 1.5W
1N4068	Mot	47V 1.5W
1N4069	Mot	51V 2W
1N4070	Mot	56V 2W
1N4071	Mot	62V 2W
1N4072	Mot	68V 2W
1N4073	Mot	75V 2W
1N4074	Mot	82V 2W
1N4075	Mot	87V 2W
1N4076	Mot	91V 2W
1N4077	Mot	100V 2W
1N4078	Mot	105V 2W
1N4079	Mot	110V 2W
1N4080	Mot	120V 2W
1N4081	Mot	130V 2.5W
1N4082	Mot	140V 2.5W
1N4083	Mot	150V 2.5W
1N4084	Mot	175V 2.5W
1N4085	Mot	200V 2.5W
1N4100	Mot	7.5V .25W
1N429	Mot	6.2V .2W
1N4370	Mot	2.4V .5W
1N4371	Mot	2.7V .5W
1N4372	Mot	3.0V .5W
1N4728	Mot	3.3V 1W
1N4729	Mot	3.6V 1W
1N4730	Mot	3.9V 1W
1N4731	Mot	4.3V 1W
1N4732	Mot	4.7V 1W
1N4733	Mot	5.1V 1W
1N4734	Mot	5.6V 1W
1N4735	Mot	6.2V 1W
1N4736	Mot	6.8V 1W
1N4737	Mot	7.5V 1W
1N4738	Mot	8.2V 1W

Zener Diodes

Part #	Mfr.	Specs.	Part #	Mfr.	Specs.
1N4739	Mot	9.1V 1W	1N5376A	SGS	87V 5W
1N4740	Mot	10V 1W	1N5377A	SGS	91V 5W
1N4741	Mot	11V 1W	1N5378A	SGS	100V 5W
1N4742	Mot	12V 1W	1N5379A	SGS	110V 5W
1N4743	Mot	13V 1W	1N5380A	SGS	120V 5W
1N4744	Mot	15V 1W	1N5381A	SGS	130V 5W
1N4745	Mot	16V 1W	1N5382A	SGS	140V 5W
1N4746	Mot	18V 1W	1N5383A	SGS	150V 5W
1N4747	Mot	20V 1W	1N5384A	SGS	160V 5W
1N4748	Mot	22V 1W	1N5385A	SGS	170V 5W
1N4749	Mot	24V 1W	1N5386A	SGS	180V 5W
1N4750	Mot	27V 1W	1N5387A	SGS	190V 5W
1N4751	Mot	30V 1W	1N5388A	SGS	200V 5W
1N4752	Mot	33V 1W	1N6282	Mot	30V 5W
1N4753	Mot	36V 1W	1N6461	Uni	5.6V 2.5W
1N4754	Mot	39V 1W	1N6462	Uni	6.5V 2.5W
1N4755	Mot	43V 1W	1N6463	Uni	13.6V 2.5W
1N4756	Mot	47V 1W	1N6464	Uni	16.4V 2.5W
1N4757	Mot	51V 1W	1N6465	Uni	27V 2.5W
1N4758	Mot	56V 1W	1N6466	Uni	33V 2.5W
1N4759	Mot	62V 1W	1N6467	Uni	43.7V 2.5W
1N4760	Mot	68V 1W	1N6468	Uni	54V 2.5W
1N4761	Mot	75V 1W	1N746	Mot	3.3V .5W
1N4762	Mot	82V 1W	1N746A	Yunizon	3.3V .4W
1N4763	Mot	91V 1W	1N747	Mot	3.6V .5W
1N4764	Mot	100V 1W	1N747A	Yunizon	3.6V .4W
1N5281	Mot	200V .5W	1N748	Mot	3.9V .5W
1N5333A	SGS	3.3V 5W	1N748A	Yunizon	3.9V .4W
1N5334A	SGS	3.6V 5W	1N749	Mot	4.3V .5W
1N5335A	SGS	3.9V 5W	1N749A	Yunizon	4.3V .4W
1N5336A	SGS	4.3V 5W	1N750	Mot	4.7V .5W
1N5337A	SGS	4.7V 5W	1N750A	Yunizon	4.7V .4W
1N5338A	SGS	5.1V 5W	1N751	Mot	5.1V .5W
1N5339A	SGS	5.6V 5W	1N751A	Yunizon	5.1V .4W
1N5340A	SGS	6V 5W	1N752	Mot	5.6V .5W
1N5341A	SGS	6.2V 5W	1N752A	Yunizon	5.6V .4W
1N5342A	SGS	6.8V 5W	1N753	Mot	6.2V .5W
1N5343A	SGS	7.5V 5W	1N753A	Yunizon	6.2V .4W
1N5344A	SGS	8.2V 5W	1N754	Mot	6.8V .5W
1N5345A	SGS	8.7V 5W	1N754A	Yunizon	6.8V .4W
1N5346A	SGS	9.1V 5W	1N755	Mot	7.5V .5W
1N5347A	SGS	10V 5W	1N755A	Yunizon	7.5V .4W
1N5348A	SGS	11V 5W	1N756	Mot	8.2V .5W
1N5349A	SGS	12V 5W	1N756A	Yunizon	8.2V .4W
1N5350A	SGS	13V 5W	1N757	Mot	9.1V .5W
1N5351A	SGS	14V 5W	1N757A	Yunizon	9.1V .4W
1N5352A	SGS	15V 5W	1N758	Mot	10V .5W
1N5353A	SGS	16V 5W	1N758A	Yunizon	10V .4W
1N5354A	SGS	17V 5W	1N759	Mot	12V .5W
1N5355A	SGS	18V 5W	1N759A	Yunizon	11V .4W
1N5356A	SGS	19V 5W	1N821	Mot	6.2V .4W
1N5357A	SGS	20V 5W	1N821A	Mot	6.2V .4W
1N5358A	SGS	22V 5W	1N823	Mot	6.2V .4W
1N5359A	SGS	24V 5W	1N823A	Mot	6.2V .4W
1N5360A	SGS	25V 5W	1N825	Mot	6.2V .4W
1N5361A	SGS	27V 5W	1N825A	Mot	6.2V .4W
1N5362A	SGS	28V 5W	1N827	Mot	6.2V .4W
1N5363A	SGS	30V 5W	1N827A	Mot	6.2V .4W
1N5364A	SGS	33V 5W	1N829	Mot	6.2V .4W
1N5365A	SGS	36V 5W	1N829A	Mot	6.2V .4W
1N5366A	SGS	39V 5W	1N935	Mot	9V .5W
1N5367A	SGS	43V 5W	1N935A	Mot	9V .5W
1N5368A	SGS	47V 5W	1N935B	Mot	9V .5W
1N5369A	SGS	51V 5W	1N936	Mot	9V .5W
1N5370A	SGS	56V 5W	1N936A	Mot	9V .5W
1N5371A	SGS	60V 5W	1N936B	Mot	9V .5W
1N5372A	SGS	62V 5W	1N937	Mot	9V .5W
1N5373A	SGS	68V 5W	1N937A	Mot	9V .5W
1N5374A	SGS	75V 5W	1N937B	Mot	9V .5W
1N5375A	SGS	82V 5W	1N938	Mot	9V .5W
			1N938A	Mot	9V .5W
			1N938B	Mot	9V .5W
			1N939	Mot	9V .5W
			1N939A	Mot	9V .5W
			1N939B	Mot	9V .5W

1N957	Mot	6.8V .5W
1N957B	Yunizon	6.8V .4W
1N958	Mot	7.5V .5W
1N958B	Yunizon	7.5V .4W
1N959	Mot	8.2V .5W
1N959B	Yunizon	8.2V .4W
1N960	Mot	9.1V .5W
1N960B	Yunizon	9.1V .4W
1N961	Mot	10V .5W
1N961B	Yunizon	10V .4W
1N962	Mot	11V .5W
1N962B	Yunizon	11V .4W
1N963	Mot	12V .5W
1N963B	Yunizon	12V .4W
1N964	Mot	13V .5W
1N964B	Yunizon	13V .4W
1N965	Mot	15V .5W
1N965B	Yunizon	15V .4W
1N966	Mot	16V .5W
1N966B	Yunizon	16V .4W
1N967	Mot	18V .5W
1N967B	Yunizon	18V .4W
1N968	Mot	20V .5W
1N968B	Yunizon	20V .4W
1N969	Mot	22V .5W
1N969B	Yunizon	22V .4W
1N970	Mot	24V .5W
1N970B	Yunizon	24V .4W
1N971	Mot	27V .5W
1N971B	Yunizon	27V .4W
1N972	Mot	30V .5W
1N972B	Yunizon	30V .4W
1N973	Mot	33V .5W
1N973B	Yunizon	33V .4W
1N974	Mot	36V .5W
1N974B	Yunizon	36V .4W
1N975	Mot	39V .5W
1N976	Mot	43V .5W
1N977	Mot	47V .5W
1N978	Mot	51V .5W
1N979	Mot	56V .5W
1N980	Mot	62V .5W
1N981	Mot	68V .5W
1N982	Mot	75V .5W
1N983	Mot	82V .5W
1N984	Mot	91V .5W
1N985	Mot	100V .5W
1N986	Mot	110V .5W
1N987	Mot	120V .4W
1N988	Mot	130V .4W
1N989	Mot	150V .4W
1N990	Mot	160V .4W
1N991	Mot	180V .4W
1N992	Mot	200V .4W
BZD2310	Phil	10V 2.5W
BZD23100	Phil	100V 2.5W
BZD2311	Phil	11V 2.5W
BZD23110	Phil	110V 2.5W
BZD2312	Phil	12V 2.5W
BZD23120	Phil	120V 2.5W
BZD2313	Phil	13V 2.5W
BZD23130	Phil	130V 2.5W
BZD2315	Phil	15V 2.5W
BZD23150	Phil	150V 2.5W
BZD2316	Phil	16V 2.5W
BZD2318	Phil	18V 2.5W
BZD23180	Phil	180V 2.5W
BZD2320	Phil	20V 2.5W
BZD23200	Phil	200V 2.5W
BZD2322	Phil	22V 2.5W
BZD23220	Phil	220V 2.5W
BZD2324	Phil	24V 2.5W
BZD23240	Phil	240V 2.5W
BZD2327	Phil	27V 2.5W
BZD23270	Phil	270V 2.5W

BZD2330	Phil	30V 2.5W
BZD2333	Phil	33V 2.5W
BZD2336	Phil	36V 2.5W
BZD2339	Phil	39V 2.5W
BZD2343	Phil	43V 2.5W
BZD2347	Phil	47V 2.5W
BZD2351	Phil	51V 2.5W
BZD2356	Phil	56V 2.5W
BZD2362	Phil	62V 2.5W
BZD2368	Phil	68V 2.5W
BZD2375	Phil	75V 2.5W
BZD237V5	Phil	7.5V 2.5W
BZD2382	Phil	82V 2.5W
BZD238V2	Phil	8.2V 2.5W
BZD2391	Phil	91V 2.5W
BZD239V1	Phil	9.1V 2.5W
BZT0310	Phil	10V 3.25W
BZT03100	Phil	100V 3.25W
BZT0311	Phil	11V 3.25W
BZT03110	Phil	110V 3.25W
BZT0312	Phil	12V 3.25W
BZT03120	Phil	120V 3.25W
BZT0313	Phil	13V 3.25W
BZT03130	Phil	130V 3.25W
BZT0315	Phil	15V 3.25W
BZT03150	Phil	150V 3.25W
BZT0316	Phil	16V 3.25W
BZT03160	Phil	160V 3.25W
BZT0318	Phil	18V 3.25W
BZT03180	Phil	180V 3.25W
BZT0320	Phil	20V 3.25W
BZT03200	Phil	200V 3.25W
BZT0322	Phil	22V 3.25W
BZT03220	Phil	220V 3.25W
BZT0324	Phil	24V 3.25W
BZT03240	Phil	240V 3.25W
BZT0327	Phil	27V 3.25W
BZT03270	Phil	270V 3.25W
BZT0330	Phil	30V 3.25W
BZT0333	Phil	33V 3.25W
BZT0336	Phil	36V 3.25W
BZT0339	Phil	39V 3.25W
BZT0343	Phil	43V 3.25W
BZT0347	Phil	47V 3.25W
BZT0351	Phil	51V 3.25W
BZT0356	Phil	56V 3.25W
BZT0362	Phil	62V 3.25W
BZT0368	Phil	68V 3.25W
BZT0375	Phil	75V 3.25W
BZT037V5	Phil	7.5V 3.25W
BZT0382	Phil	82V 3.25W
BZT038V2	Phil	8.2V 3.25W
BZT0391	Phil	91V 3.25W
BZT039V1	Phil	9.1V 3.25W
BZX79A10	Phil	10V .5W
BZX79A11	Phil	11V .5W
BZX79A12	Phil	12V .5W
BZX79A13	Phil	13V .5W
BZX79A15	Phil	15V .5W
BZX79A16	Phil	16V .5W
BZX79A18	Phil	18V .5W
BZX79A2.4	Phil	2.4V .5W
BZX79A2.7	Phil	2.7V .5W
BZX79A20	Phil	20V .5W
BZX79A22	Phil	22V .5W
BZX79A24	Phil	24V .5W
BZX79A27	Phil	27V .5W
BZX79A3.0	Phil	3.0V .5W
BZX79A3.3	Phil	3.3V .5W
BZX79A3.6	Phil	3.6V .5W
BZX79A3.9	Phil	3.9V .5W
BZX79A30	Phil	30V .5W
BZX79A33	Phil	33V .5W
BZX79A36	Phil	36V .5W
BZX79A39	Phil	39V .5W

Zener Diodes

Part #	Mfr.	Specs.			
BZX79A4.3	Phil	4.3V .5W	TVS318	Uni	20.4V 3W
BZX79A4.7	Phil	4.7V .5W	TVS324	Uni	28.4V 3W
BZX79A43	Phil	43V .5W	TVS328	Uni	30.7V 3W
BZX79A47	Phil	47V .5W	TVS348	Uni	54V 3W
BZX79A5.1	Phil	5.1V .5W	TVS360	Uni	67V 3W
BZX79A5.6	Phil	5.6V .5W	TVS410	Uni	111V 3W
BZX79A51	Phil	51V .5W	TVS420	Uni	234V 3W
BZX79A56	Phil	56V .5W	TVS430	Uni	342V 3W
BZX79A6.2	Phil	6.2V .5W	TVS505	Uni	6V 5W
BZX79A6.8	Phil	6.8V .5W	TVS510	Uni	11.1V 5W
BZX79A62	Phil	62V .5W	TVS512	Uni	13.8V 5W
BZX79A7.5	Phil	7.5V .5W	TVS515	Uni	16.7V 5W
BZX79A75	Phil	75V .5W	TVS518	Uni	20.4V 5W
BZX79A8.2	Phil	8.2V .5W	TVS524	Uni	28.4V 5W
BZX79A9.1	Phil	9.1V .5W	TVS528	Uni	30.7V 5W
BZX79A91	Phil	91V .5W	ZC820A	Zetex	45V .2W
EQA03052	Fuji	5V .4W	ZC821A	Zetex	45V .2W
EQA03062	Fuji	6V .4W	ZC822A	Zetex	45V .2W
EQA03072	Fuji	7.2V .4W	ZC823A	Zetex	45V .2W
EQA03082	Fuji	8.1V .4W	ZC824A	Zetex	45V .2W
EQA03092	Fuji	9.2V .4W	ZC825A	Zetex	45V .2W
EQA03102	Fuji	10.6V .4W	ZC826A	Zetex	45V .2W
EQA03112	Fuji	11.9V .4W	ZC830A	Zetex	45V .2W
EQA03122	Fuji	12.7V .4W	ZC831A	Zetex	45V .2W
EQA03132	Fuji	13.6V .4W	ZC832A	Zetex	45V .2W
EQA03142	Fuji	14.5V .4W	ZC833A	Zetex	45V .2W
EQA03152	Fuji	15.4V .4W	ZC834A	Zetex	45V .2W
EQA03162	Fuji	16.4V .4W	ZC835A	Zetex	45V .2W
EQA03172	Fuji	17.6V .4W	ZC836A	Zetex	45V .2W
EQA03182	Fuji	18.8V .4W	ZDX1F	Zetex	100V .2W
EQA03202	Fuji	20.2V .4W	ZDX2F	Zetex	100V .2W
EQA03212	Fuji	21.4V .4W	ZDX5	Zetex	165V .2W
EQA03222	Fuji	22.4V .4W	ZDX6	Zetex	165V .2W
EQA03232	Fuji	23.7V .4W			
EQA03252	Fuji	25.6V .4W			
EQA03282	Fuji	27.7V .4W			
EQA03302	Fuji	29.8V .4W			
EQA03322	Fuji	31.7V .4W			
EQA03332	Fuji	33.6V .4W			
EQA03352	Fuji	35.6V .4W			
EQB01052	Fuji	5V 1W			
EQB01062	Fuji	6V 1W			
EQB01072	Fuji	6.9V 1W			
EQB01082	Fuji	7.8V 1W			
EQB01092	Fuji	8.8V 1W			
EQB01102	Fuji	9.8V 1W			
EQB01112	Fuji	11.1V 1W			
EQB01122	Fuji	12.2V 1W			
EQB01132	Fuji	13.2V 1W			
EQB01142	Fuji	14V 1W			
EQB01152	Fuji	15V 1W			
EQB01162	Fuji	16V 1W			
EQB01172	Fuji	17V 1W			
EQB01182	Fuji	18V 1W			
EQB01192	Fuji	19V 1W			
EQB01202	Fuji	20V 1W			
EQB01212	Fuji	21.2V 1W			
EQB01222	Fuji	22.4V 1W			
EQB01242	Fuji	23.6V 1W			
EQB01252	Fuji	25V 1W			
EQB01262	Fuji	26.5V 1W			
EQB01282	Fuji	28V 1W			
EQB01302	Fuji	30V 1W			
EQB01322	Fuji	31.5V 1W			
EQB01332	Fuji	33.5V 1W			
EQB01352	Fuji	35.5V 1W			
TVS305	Uni	6V 3W			
TVS310	Uni	11.1V 3W			
TVS312	Uni	13.8V 3W			
TVS315	Uni	16.7V 3W			

Rectifier Diodes [386]

Part #	Mfr.	Desc.	Specs.
1N1183	Mot	Med. Cur.	50V 35A
1N1184	Mot	Med. Cur.	100V 35A
1N1185	Mot	Med. Cur.	150V 35A
1N1186	Mot	Med. Cur.	200V 35A
1N1187	Mot	Med. Cur.	300V 35A
1N1188	Mot	Med. Cur.	400V 35A
1N1189	Mot	Med. Cur.	500V 35A
1N1190	Mot	Med. Cur.	600V 35A
1N1199	Mot	Med. Cur.	50V 35A
1N1200	Mot	Med. Cur.	100V 12A
1N1202	Mot	Med. Cur.	200V 12A
1N1204	Mot	Med. Cur.	400V 12A
1N1206	Mot	Med. Cur.	600V 12A
1N3491	Mot	Med. Cur.	50V 25A
1N3492	Mot	Med. Cur.	100V 25A
1N3493	Mot	Med. Cur.	200V 25A
1N3494	Mot	Med. Cur.	300V 25A
1N3495	Mot	Med. Cur.	400V 25A
1N3879	Mot	Fast Rec.	50V 6A
1N3880	Mot	Fast Rec.	100V 6A
1N3881	Mot	Fast Rec.	200V 6A
1N3882	Mot	Fast Rec.	300V 6A
1N3883	Mot	Fast Rec.	400V 6A
1N3889	Mot	Fast Rec.	50V 12A
1N3890	Mot	Fast Rec.	100V 12A
1N3891	Mot	Fast Rec.	200V 12A
1N3892	Mot	Fast Rec.	300V 12A
1N3893	Mot	Fast Rec.	400V 12A
1N3899	Mot	Fast Rec.	50V 20A
1N3900	Mot	Fast Rec.	100V 20A
1N3901	Mot	Fast Rec.	200V 20A
1N3902	Mot	Fast Rec.	300V 20A
1N3903	Mot	Fast Rec.	400V 20A
1N3909	Mot	Fast Rec.	50V 30A
1N3910	Mot	Fast Rec.	100V 30A
1N3911	Mot	Fast Rec.	200V 30A
1N3912	Mot	Fast Rec.	300V 30A
1N3913	Mot	Fast Rec.	400V 30A
1N4001	Mot	Gen. Pur.	50V 1A
1N4002	Mot	Gen. Pur.	100V 1A
1N4003	Mot	Gen. Pur.	200V 1A
1N4004	Mot	Gen. Pur.	400V 1A
1N4005	Mot	Gen. Pur.	600V 1A
1N4006	Mot	Gen. Pur.	800V 1A
1N4007	Mot	Gen. Pur.	1000V 1A
1N4719	Mot	Power	50V 3A
1N4720	Mot	Power	100V 3A
1N4721	Mot	Power	200V 3A
1N4722	Mot	Power	400V 3A
1N4723	Mot	Power	600V 3A
1N4724	Mot	Power	800V 3A
1N4725	Mot	Power	1000V 3A
1N4933	Mot	Fast Rec.	50V 1A
1N4934	Mot	Fast Rec.	100V 1A
1N4935	Mot	Fast Rec.	200V 1A
1N4936	Mot	Fast Rec.	400V 1A
1N4937	Mot	Fast Rec.	600V 1A
1N5391	Mot	Gen. Pur.	50V 1.5A
1N5392	Mot	Gen. Pur.	100V 1.5A
1N5393	Mot	Gen. Pur.	200V 1.5A
1N5395	Mot	Gen. Pur.	400V 1.5A
1N5397	Mot	Gen. Pur.	600V 1.5A
1N5398	Mot	Gen. Pur.	800V 1.5A
1N5399	Mot	Gen. Pur.	1000V 1.5A
1N5400	Mot	Std. Rec.	50V 3A
1N5401	Mot	Std. Rec.	100V 3A
1N5402	Mot	Std. Rec.	200V 3A
1N5404	Mot	Std. Rec.	400V 3A
1N5406	Mot	Std. Rec.	600V 3A
1N5806		Ultrafast	150V 2.5A
1N5811	Uni	High Eff.	150V 6A
1N5816	Uni	High Eff.	150V 20A
1N6628		Ultrafast	600V 2A
1N6638		Ultrafast	125V 1A
1R5BZ41	Tosh		100V 1.5A
1R5BZ61	Tosh		100V 1.5A
1R5CL41	Tosh		150V 1.5A
1R5DL41	Tosh		200V 1.5A
1R5DL41A	Tosh		200V 1.5A
1R5DU41	Tosh		200V 1.5A
1R5DZ41	Tosh		200V 1.5A
1R5DZ61	Tosh		200V 1.5A
1R5GH45	Tosh		400V 1.5A
1R5GU41	Tosh		400V 1.5A
1R5GZ41	Tosh		400V 1.5A
1R5GZ61	Tosh		400V 1.5A
1R5JH45	Tosh		600V 1.5A
1R5JZ41	Tosh		600V 1.5A
1R5JZ61	Tosh		600V 1.5A
1R5LZ41	Tosh		800V 1.5A
1R5NH45	Tosh		1000V 1.5A
1R5NU41	Tosh		1000V 1.5A
1R5NZ41	Tosh		1000V 1.5A
1R5TH61	Tosh		1500V 1.5A
1S310	Hitachi		50V 0.5A
1S311	Hitachi		100V 0.5A
1S312	Hitachi		200V 0.5A
1S313	Hitachi		300V 0.5A
1S314	Hitachi		400V 0.5A
1S315	Hitachi		500V 0.5A
1S316	Hitachi		800V 0.45A
1S317	Hitachi		1000V 0.45A
1S812	Fujidenki		400V 0.5A
1S813	Fujidenki		800V 0.5A
1S814	Fujidenki		1000V 0.5A
1S815	Fujidenki		1200V 0.5A
1S822	Fujidenki		400V 2.5A
1S823	Fujidenki		800V 2.5A
1S824	Fujidenki		1000V 2.5A
1S825	Fujidenki		1200V 2.5A
BAL74	Zetex		6.2V .2W
BAL99	Zetex		6.2V .2W
BAR74	Zetex		6.2V .2W
BAR99	Zetex		6.2V .2W
BAS11	Phil	Avalanche	300V .3A
BAS16	Phil	High Spd.	75V 250mA
BAS16Z	Zetex		6.2V .2W
BAS19	Zetex		6.2V .2W
BAS20	Zetex		6.2V .2W
BAS21	Zetex		6.2V .2W
BAV10	Phil	High Spd.	60V 300mA
BAV18	Phil	Gen. Pur.	50V 250mA
BAV19	Phil	Gen. Pur.	100V .25A
BAV20	Phil	Gen. Pur.	150V .25A
BAV21	Phil	Gen. Pur.	200V .25A
BAV70	Zetex		6.2V .2W
BAV74	Zetex		6.2V .2W
BAV99	Zetex		6.2V .2W
BAW56	Zetex		6.2V .2W
BAW62	Phil	High Spd.	75V 450mA
BAX12	Phil	Fast Aval.	90V 800mA
BAX18	Phil	Gen. Pur.	75V 400mA
BBY31	Zetex		6.2V .2W
BBY40	Zetex		6.2V .2W
BY251	Diotec		200V 3A
BY252	Diotec		400V 3A
BY253	Diotec		600V 3A
BY254	Diotec		800V 3A
BY255	Diotec		1300V 3A
BY296	Diotec		100V 2A
BY297	Diotec		200V 2A

BY298	Diotec	400V 2A
BY299	Diotec	800V 2A
BY396	Diotec	100V 3A
BY397	Diotec	200V 3A
BY398	Diotec	400V 3A
BY399	Diotec	800V 3A
BYV27-05	Phil	Avalanche 50V 2A
BYV27-100	Phil	Avalanche 100V 2A
BYV27-150	Phil	Avalanche 150V 2A
BYV27-200	Phil	Avalanche 200V 2A
BYV28-10	Phil	Avalanche 100V 3.5A
BYV28-15	Phil	Avalanche 150V 3.5A
BYV28-200	Phil	Avalanche 200V 3.5A
BYV28-50	Phil	Avalanche 50V 3.5A
BYV36A	Phil	Fast Aval. 200V 2A
BYV36B	Phil	Fast Aval. 400V 2A
BYV36C	Phil	Fast Aval. 600V 2A
BYV36D	Phil	Fast Aval. 800V 2A
BYV36E	Phil	Fast Aval. 1000V 2A
BYV95A	Phil	Fast Aval. 200V 1.5A
BYV95B	Phil	Fast Aval. 400V 1.5A
BYV95C	Phil	Fast Aval. 600V 1.5A
BYV96D	Phil	Fast Aval. 800V 1.5A
BYV96E	Phil	Fast Aval. 1000V 1.5A
BYX553503	Diotec	350V 1.2A
BYX556003	Diotec	600V 1.2A
CD410430	Power	400V 30A
CD410460	Power	400V 60A
CD410830	Power	800V 30A
CD410860	Power	800V 60A
CD411230	Power	1200V 30A
CD411630	Power	1600V 30A
CS410499	Power	400V 100A
CS410699	Power	600V 100A
CS410899	Power	800V 100A
CS411099	Power	1000V 100A
CS411299	Power	1200V 100A
CS411499	Power	1400V 100A
DD1000	Diotec	10000V 20MA
DD1200	Diotec	12000V 20MA
DD1300	Diotec	13000V 20MA
DD1600	Diotec	16000V 20MA
DD3003	Diotec	3000V 20MA
DD6003	Diotec	6000V 20MA
ERA1501	Fuji	80V 1A
ERA1502	Fuji	160V 1A
ERA1504	Fuji	320V 1A
ERA1506	Fuji	480V 1A
ERA1508	Fuji	640V 1A
ERA1510	Fuji	800V 1A
ERA3410	Fuji	800V .1A
ERA3804	Fuji	400V .5A
ERA3805	Fuji	500V .5A
ERA3806	Fuji	600V .5A
ERA9102	Fuji	160V .5A
ERA9202	Fuji	200V 1A
ERB0613	Fuji	1040V 1A
ERB0615	Fuji	1200V 1A
ERB3804	Fuji	400V .8A
ERB3805	Fuji	500V .8A
ERB3806	Fuji	600V .8A
ERB4402	Fuji	160V 1A
ERB4404	Fuji	320V 1A
ERB4406	Fuji	480V 1A
ERB4408	Fuji	640V 1A
ERB4410	Fuji	800V 1A
ERB9102	Fuji	160V 1A
ERC3502	Fuji	160V 2.5A
ERC3804	Fuji	400V 1A
ERC3805	Fuji	500V 1A
ERC3806	Fuji	600V 1A
ERC9102	Fuji	200V 3A
ERD0302	Fuji	160V 3A
ERD0304	Fuji	320V 3A

ERD08M15	Fuji	1200V 5A
ERD2902	Fuji	160V 2.5A
ERD2904	Fuji	320V 2.5A
ERD2906	Fuji	480V 2.5A
ERD3102	Fuji	160V 1.5A
ERD314	Fuji	320V 1.5A
ERD3302	Fuji	160V 2A
ERD3804	Fuji	400V 1.5A
ERD3805	Fuji	500V 1.5A
ERD3806	Fuji	600V 1.5A
ERE4115	Fuji	1200V 3A
ESAB9202	Fuji	200V 5A
ESAC3904	Fuji	400V 5A
ESAC3906	Fuji	600V 5A
ESAC9202	Fuji	200V 16A
ESAC9203	Fuji	300V 10A
ESAD3302	Fuji	500V 20A
ESAD3904	Fuji	400V 10A
ESAD3906	Fuji	600V 10A
ESAD9202	Fuji	200V 20A
ESAD9203	Fuji	300V 20A
FE1A3	Diotec	50V 1A
FE1B3	Diotec	100V 1A
FE1C3	Diotec	150V 1A
FE1D3	Diotec	200V 1A
FE1E3	Diotec	250V 1A
FE1F3	Diotec	300V 1A
FE1G3	Diotec	350V 1A
FE1H3	Diotec	400V 1A
FMMD2835	Zetex	6.2V .2W
FMMD2836	Zetex	6.2V .2W
FMMD2837	Zetex	6.2V .2W
FMMD2838	Zetex	6.2V .2W
FMMD6050	Zetex	6.2V .2W
FMMD6100	Zetex	6.2V .2W
FMMD7000	Zetex	6.2V .2W
FMMD914	Zetex	6.2V .2W
FMMV105G	Zetex	6.2V .2W
FMMV109	Zetex	6.2V .2W
FMMV2101	Zetex	6.2V .2W
FMMV2102	Zetex	6.2V .2W
FMMV2103	Zetex	6.2V .2W
FMMV2104	Zetex	6.2V .2W
FMMV2105	Zetex	6.2V .2W
FMMV2106	Zetex	6.2V .2W
FMMV2107	Zetex	6.2V .2W
FMMV2108	Zetex	6.2V .2W
FMMV2109	Zetex	6.2V .2W
FMMV3102	Zetex	6.2V .2W
GI7503	GI	50V 6.00A
GI7513	GI	100V 6.00A
GI7523	GI	200V 6.00A
GI7543	GI	400V 6.00A
GI7563	GI	600V 6.00A
GI7583	GI	800V 6.00A
HD2A3	Zetex	6.2V .2W
HD3A3	Zetex	6.2V .2W
HD4A3	Zetex	6.2V .2W
HFA08TB60	I.R.	600V 8A
HFA15TB60	I.R.	600V 15A
HFA25TB60	I.R.	600V 25A,
HFA30TA60C	I.R.	600V 30A
HFA50PA60C	I.R.	600V 50A
LD102A	Zetex	6.2V .2W
LD103A	Zetex	6.2V .2W
LD1063	Zetex	6.2V .2W
MBR1535CT	Mot	35V 7.5A
MBR1545CT	Mot	45V 7.5A
MR1366	Mot	Fast Rec. 600V 6A
MR1376	Mot	Fast Rec. 600V 12A
MR1386	Mot	Fast Rec. 600V 20A
MR1396	Mot	Fast Rec. 600V 30A
MR500	Mot	Power 50V 3A
MR501	Mot	Power 100V 3A
MR502	Mot	Power 200V 3A

MR504	Mot	Power	400V 3A
MR506	Mot	Power	600V 3A
MR508	Mot	Power	800V 3A
MR510	Mot	Power	1000V 3A
MR750	Mot	High Cur.	50V 6A
MR751	Mot	High Cur.	100V 6A
MR752	Mot	High Cur.	200V 6A
MR754	Mot	High Cur.	400V 6A
MR756	Mot	High Cur.	600V 6A
MR758	Mot	High Cur.	800V 6A
MR760	Mot	High Cur.	1000V 6A
MR810	Mot	Fast Rec.	50V 1A
MR811	Mot	Fast Rec.	100V 1A
MR812	Mot	Fast Rec.	200V 1A
MR813	Mot	Fast Rec.	300V 1A
MR814	Mot	Fast Rec.	400V 1A
MR816	Mot	Fast Rec.	600V 1A
MR817	Mot	Fast Rec.	800V 1A
MR818	Mot	Fast Rec.	1000V 1A
MR8503	Mot		50V 3A
MR8513	Mot		100V 3A
MR8523	Mot		200V 3A
MR8543	Mot		400V 3A
MR8563	Mot		600V 3A
MUR10005	Mot	Ultrafast	50V 80A
MUR10010	Mot	Ultrafast	100V 80A
MUR10015	Mot	Ultrafast	150V 80A
MUR10020	Mot	Ultrafast	200V 80A
MUR105	Mot	Ultrafast	50V 1A
MUR110	Mot	Ultrafast	100V 1A
MUR1100	Mot	Ultrafast	1000V 1A
MUR115	Mot	Ultrafast	150V 1A
MUR120	Mot	Ultrafast	200V 1A
MUR130	Mot	Ultrafast	300V 1A
MUR140	Mot	Ultrafast	400V 1A
MUR150	Mot	Ultrafast	500V 1A
MUR160	Mot	Ultrafast	600V 1A
MUR1605CT	Mot		50V 16A
MUR1610CT	Mot		100V 16A
MUR1615CT	Mot		150V 16A
MUR1620CT	Mot		200V 16A
MUR1630CT	Mot		300V 16A
MUR1640CT	Mot		400V 16A
MUR1650CT	Mot		500V 16A
MUR1660CT	Mot		600V 16A
MUR170	Mot	Ultrafast	700V 1A
MUR180	Mot	Ultrafast	800V 1A
MUR190	Mot	Ultrafast	900V 1A
MUR3005PT	Mot	Ultrafast	50V 15A
MUR3010PT	Mot	Ultrafast	100V 15A
MUR3015PT	Mot	Ultrafast	150V 15A
MUR3020PT	Mot	Ultrafast	200V 15A
MUR3030PT	Mot	Ultrafast	300V 15A
MUR3040PT	Mot	Ultrafast	400V 15A
MUR3050PT	Mot	Ultrafast	500V 15A
MUR3060PT	Mot	Ultrafast	600V 15A
MUR405	Mot	Ultrafast	50V 4A
MUR410	Mot	Ultrafast	100V 4A
MUR4100	Mot	Ultrafast	1000V 4A
MUR415	Mot	Ultrafast	150V 4A
MUR420	Mot	Ultrafast	200V 4A
MUR430	Mot	Ultrafast	300V 4A
MUR440	Mot	Ultrafast	400V 4A
MUR450	Mot	Ultrafast	500V 4A
MUR460	Mot	Ultrafast	600V 4A
MUR470	Mot	Ultrafast	700V 4A
MUR480	Mot	Ultrafast	800V 4A
MUR490	Mot	Ultrafast	900V 4A
MUR605CT	Mot	Ultrafast	50V 6A
MUR610CT	Mot	Ultrafast	100V 6A
MUR615CT	Mot	Ultrafast	150V 6A
MUR620CT	Mot	Ultrafast	200V 6A
MUR7005	Mot		50V 70A
MUR7010	Mot		100V 70A
MUR7015	Mot		150V 70A

MUR7020	Mot		200V 70A
MUR805	Mot	Ultrafast	50V 8A
MUR810	Mot	Ultrafast	100V 8A
MUR8100	Mot	Ultrafast	1000V 8A
MUR815	Mot	Ultrafast	150V 8A
MUR820	Mot	Ultrafast	200V 8A
MUR830	Mot	Ultrafast	300V 8A
MUR840	Mot	Ultrafast	400V 8A
MUR850	Mot	Ultrafast	500V 8A
MUR860	Mot	Ultrafast	600V 8A
MUR870	Mot	Ultrafast	700V 8A
MUR880	Mot	Ultrafast	800V 8A
MUR890	Mot	Ultrafast	900V 8A
R18C12B	I.R.	Power	1200V 185A
R18C14B	I.R.	Power	1400V 185A
R18C16A	I.R.	Power	1600V 185A
R18C18A	I.R.	Power	1800V 185A
RC184A	I.R.		400V 200A
RC18C6A	I.R.		600 200A
RGP30M	Diotec		1000V 3A
SDR937	SSDI	Power	700V 100A

GaAs Diodes [15]

Part #	Mfr.	Specs.
IRL80A	Siem	3V 60MA
LD242	Siem	5V .3A
LD261	Siem	5V 60MA
LD271	Siem	5V .13A
LD274	Siem	5V .1A
SFH400	Siem	5V .3A
SFH405	Siem	5V 40MA
SFH409	Siem	5V .1A
SFH414	Siem	5V .1A
SFH420	Siem	5V .1A
SFH421	Siem	5V .1A
SFH462	Siem	3V 50MA
SFH480	Siem	5V .2A
SFH483	Siem	5V .2A
SFH484	Siem	5V .1A

Switching Diodes [31]

Part #	Mfr.	Desc.	Specs.
1N914	Unit	Gen Pur.	100V 75mA
1N916	Nat	Gen Pur.	100V 200mA
1N3600	Unit	Low Pwr.	75V 200mA
1N3064	Unit	Gen Pur.	75V 75mA
1N4148	Unit	Gen Pur.	75V 200mA
1N4149	Unit	Gen Pur.	75V 200mA
1N4150	Unit	Low Pwr.	75V 200mA
1N4151	Unit	Gen Pur.	75V 200mA
1N4152	Unit	Gen Pur.	40V 200mA
1N4153	Unit	Gen Pur.	75V 150mA
1N4154	Unit	Gen Pur.	35V 200mA
1N4305	Unit	Gen Pur.	75V 200mA
1N4444	Unit	Gen Pur.	70V 200mA
1N4446	Unit	Gen Pur.	75V 200mA
1N4447	Unit	Gen Pur.	75V 200mA
1N4448	Unit	Gen Pur.	75V 200mA
1N4449	Unit	Gen Pur.	75V 200mA
1N4450	Unit	Gen Pur.	40V 200mA
1N4451	Unit	Gen Pur.	40V 200mA
1N4453	Unit	Gen Pur.	30V 200mA
1N4454	Unit	Gen Pur.	75V 200mA
1N4500	Unit	Gen Pur.	80V 500mA
1N4531	Unit	Gen Pur.	100V 125mA
1N4532	Unit	Gen Pur.	75V 125mA
1N4534	Unit	Gen Pur.	75V 150mA
BA220	Phil	Gen Pur.	10V 400mA
BA221	Phil	Gen Pur.	30V 400mA
BA316	Phil	Gen Pur.	10V 225mA
BA317	Phil	Gen Pur.	30V 225mA
BA318	Phil	Gen Pur.	50V 225mA
BAS45	Phil	Gen Pur.	125V 225mA

Varactor Diodes [41]

Part #	Mfr.	Desc.	Specs.
1N5139	Mot	Var. Cap.	60V 6.8pf
1N5140	Mot	Var. Cap.	60V 10pf
1N5141	Mot	Var. Cap.	60V 12pf
1N5142	Mot	Var. Cap.	60V 15pf
1N5143	Mot	Var. Cap.	60V 18pf
1N5144	Mot	Var. Cap.	60V 22pf
1N5145	Mot	Var. Cap.	60V 27pf
1N5146	Mot	Var. Cap.	60V 33pf
1N5147	Mot	Var. Cap.	60V 39pf
1N5148	Mot	Var. Cap.	60V 47pf
1N5441	Mot	Var. Cap.	30V 6.8pf
1N5442	Mot	Var. Cap.	30V 8.2pf
1N5443	Mot	Var. Cap.	30V 10pf
1N5444	Mot	Var. Cap.	30V 12pf
1N5445	Mot	Var. Cap.	30V 15pf
1N5446	Mot	Var. Cap.	30V 18pf
1N5447	Mot	Var. Cap.	30V 20pf
1N5448	Mot	Var. Cap.	30V 22pf
1N5449	Mot	Var. Cap.	30V 27pf
1N5450	Mot	Var. Cap.	30V 33pf
1N5451	Mot	Var. Cap.	30V 39pf
1N5452	Mot	Var. Cap.	30V 47pf
1N5453	Mot	Var. Cap.	30V 56pf
1N5454	Mot	Var. Cap.	30V 68pf
1N5455	Mot	Var. Cap.	30V 82pf
1N5456	Mot	Var. Cap.	30V 100pf
BB112	Siem	Var. Cap.	12V 470pf
BB119	Phil	Var. Cap.	15V 22pf
BB204	Siem	Var. Cap.	32V 36pf
BB505	Siem	Var. Cap.	30V 17.5pf
MV2101	Mot	CT=6.8P @ 4V	

MV2103	Mot	CT=10P @ 4V
MV2104	Mot	CT=12P @ 4V
MV2105	Mot	CT=15P @ 4V
MV2107	Mot	CT=22P @ 4V
MV2108	Mot	CT=27P @ 4V
MV2109	Mot	CT=33P @ 4V
MV2111	Mot	CT=47P @ 4V
MV2113	Mot	CT=68P @ 4V
MV2114	Mot	CT=82P @ 4V
MV2115	Mot	CT=100P @ 4V

Schottky Diodes [132]

Part #	Mfr.	Desc.	Specs.
1FWJ42	Tosh		30V 1A
1FWJ43	Tosh		30V 1A
1FWJ44	Tosh		40V 1A
1GWJ42	Tosh		40V 1A
1GWJ43	Tosh		40V 1A
5KQ30	Nlnta		30V 5A
5KQ40	Nlnta		40V 5A
5KQ50	Nlnta		50V 5A
5KQ60	Nlnta		60V 5A
5KQ90	Nlnta		90V 5A
5KQ100	Nlnta		100V 5A
10KQ30	Nlnta		30V 10A
10KQ40	Nlnta		40V 10A
10KQ50	Nlnta		50V 10A
10KQ60	Nlnta		60V 10A
10KQ90	Nlnta		90V 10A
10KQ100	Nlnta		100V 10A
1N5165	HP	Gen Pur.	30V
1N5166	HP	Gen Pur.	30V
1N5167	HP	Gen Pur.	20V
1N5711	HP	Gen Pur.	70V
1N5712	HP	Gen Pur.	20V
1N5817	Mot	Gen Pur.	20V 1A
1N5818	Mot	Gen Pur.	30V 1A
1N5819	Mot	Gen Pur.	40V 1A
1N5820	Mot	Gen Pur.	20V 3A
1N5821	Mot	Gen Pur.	30V 3A
1N5822	Mot	Gen Pur.	40V 3A
1N5826	Mot	Power	20V 15A
1N5827	Mot	Power	30V 15A
1N5828	Mot	Power	40V 15A
1N5829	Mot	Power	20V 25A
1N5830	Mot	Power	30V 25A
1N5831	Mot	Power	50V 25A
1N6392H	Uni	High Temp	45V 120A
1N6392L	Uni	Low Temp	45V 120A
1N6392N	Uni	Nominal	45V 120A
1N6660		Power	45V 40A
5082-00133	HP		400V .5A
5082-2202	HP	Med. Bar.	4V
5082-22093	HP		400V .5A
5082-22333	HP		400V .5A
5082-22633	HP		400V .5A
5082-22723	HP		400V .5A
5082-22773	HP		400V .5A
5082-22793	HP		400V .5A
5082-22803	HP		400V .5A
5082-22913	HP		400V .5A
5082-22923	HP		400V .5A
5082-23033	HP		400V .5A
5082-23503	HP		400V .5A
5082-24003	HP		400V .5A
5082-27233	HP		400V .5A
5082-275X3	HP		400V .5A
5082-27873	HP		400V .5A
5082-27943	HP		400V .5A
5082-2811	HP	Gen Pur.	15V
5082-2817	HP	Med. Bar.	15V

5082-28243	HP		400V .5A
5082-28303	HP		400V .5A
5082-28313	HP		400V .5A
5082-28353	HP		400V .5A
5082-28373	HP		400V .5A
5082-2900	HP	Gen Pur.	10V
5082-2943	HP		400V .5A
BAS40	Siem	Gen Pur.	40V 40mA
BAS70	Siem	Gen Pur.	70V 15mA
BAT17	Phil	Gen Pur.	4V 30mA
BAT81	Phil	Gen Pur.	40V 30mA
BAT82	Phil	Gen Pur.	50V 30mA
BAT83	Phil	Gen Pur.	60V 30mA
BAT85	Phil	Gen Pur.	30V 200mA
BYV10-20	Phil	Gen Pur.	20V 1A
BYV10-30	Phil	Gen Pur.	30V 1A
BYV10-40	Phil	Gen Pur.	40V 1A
ERA8204	Fuji	Gen. Purp.	45V .6A
ERA830043	Fuji	Gen. Purp.	45V 1A
ERA830063	Fuji	Gen. Purp.	60V 1A
ERA850093	Fuji	Gen. Purp.	90V 1A
ERB830043	Fuji	Gen. Purp.	45V 2A
ERB830063	Fuji	Gen. Purp.	60V 2A
ERB840093	Fuji	Gen. Purp.	90V 2A
ERC62M043	Fuji	Gen. Purp.	45V 10A
ESAC63043	Fuji	Gen. Purp.	45V 20A
ESAC82043	Fuji	Gen. Purp.	45V 15A
ESAE83043	Fuji	Gen. Purp.	45V 60A
ESAE83063	Fuji	Gen. Purp.	60V 60A
IR10CTQ150	IR		150V 10A
HSCH-320X3	HP		400V .5A
HSCH-34863	HP		400V .5A
HSCH-55203	HP		400V .5A
HSCH-55403	HP		400V .5A
HSCH-58103	HP		400V .5A
HSCH-58123	HP		400V .5A
HSCH-58163	HP		400V .5A
HSCH-58303	HP		400V .5A
HSCH-58323	HP		400V .5A
HSCH-58363	HP		400V .5A
HSCH-59123	HP		400V .5A
HSCH-59183	HP		400V .5A
HSCH-59323	HP		400V .5A
HSCH-59383	HP		400V .5A
HSCH-59523	HP		400V .5A
HSCH-59583	HP		400V .5A
HSCH-65103	HP		400V .5A
HSCH-65123	HP		400V .5A
HSCH-65303	HP		400V .5A
HSCH-65323	HP		400V .5A
HSCH-9XX3	HP		400V .5A
HSMS-280X3	HP		400V .5A
HSMS-281X3	HP		400V .5A
HSMS-282X3	HP		400V .5A
HSMS-284X3	HP		400V .5A
HSMS-81013	HP		400V .5A
HSMS-82023	HP		400V .5A
MBR115P	Mot	Gen Pur.	15V 1A
MBR120P	Mot	Gen Pur.	20V 1A
MBR130P	Mot	Gen Pur.	30V 1A
MBR140P	Mot	Gen Pur.	40V 1A
MBR6535	Mot	Power	35V130A
MBR6545	Mot	Power	45V130A
MBR20100	Mot	Power	100V 20A
MBR2035	Mot	Power	35V 20A
MBR2045	Mot	Power	45V 20A
MBR2060	Mot	Power	60V 20A
MBR2070	Mot	Power	70V 20A
MBR2080	Mot	Power	80V 20A
MBR2090	Mot	Power	90V 20A
OMNI60	Omnirel	Power	60V 20A
SHD1352	Sensitron	Power	45V 45A
SHD1382	Sensitron	Power	45V 75A
SSR8045	SSDI	Power	45V 40A

Diode Bridges [64]

Part #	Mfr.	Desc.	Specs.
DB15005	Diotec	3 Phase	50V 15A
DB1501	Diotec	3 Phase	100V 15A
DB1502	Diotec	3 Phase	200V 15A
DB1504	Diotec	3 Phase	400V 15A
DB1506	Diotec	3 Phase	600V 15A
DB1508	Diotec	3 Phase	800V 15A
DB1510	Diotec	3 Phase	1000V 15A
DB1514	Diotec	3 Phase	1400V 15A
DB1512	Diotec	3 Phase	1200V 15A
DB25005	Diotec	3 Phase	50V 25A
DB2501	Diotec	3 Phase	100V 25A
DB2502	Diotec	3 Phase	200V 25A
DB2504	Diotec	3 Phase	400V 25A
DB2506	Diotec	3 Phase	600V 25A
DB2508	Diotec	3 Phase	800V 25A
DB2510	Diotec	3 Phase	1000V 25A
DB2512	Diotec	3 Phase	1200V 25A
DB2514	Diotec	3 Phase	1400V 25A
DB35005	Diotec	3 Phase	50V 35A
DB3501	Diotec	3 Phase	100V 35A
DB3502	Diotec	3 Phase	200V 35A
DB3504	Diotec	3 Phase	400V 35A
DB3506	Diotec	3 Phase	600V 35A
DB3508	Diotec	3 Phase	800V 35A
DB3510	Diotec	3 Phase	1000V 35A
DB3512	Diotec	3 Phase	1200V 35A
DB3514	Diotec	3 Phase	1400V 35A
KBPC250	Diotec	Full Wave	200V 25A
KBPC2500	Diotec	Full Wave	50V 25A
KBPC2501	Diotec	Full Wave	100V 25A
KBPC2504	Diotec	Full Wave	400V 25A
KBPC2506	Diotec	Full Wave	600V 25A
KBPC2508	Diotec	Full Wave	800V 25A
KBPC2510	Diotec	Full Wave	1000V 25A
KBPC80	Diotec	Full Wave	160V 8A
KBPC800	Diotec	Full Wave	50V 8A
KBPC801	Diotec	Full Wave	80V 8A
KBPC804	Diotec	Full Wave	250V 8A
KBPC806	Diotec	Full Wave	500V 8A
KBPC808	Diotec	Full Wave	800V 8A
KBPC810	Diotec	Full Wave	1000V 8A
KBU4A	Diotec	Full Wave	50V 4A
KBU4B	Diotec	Full Wave	100V 4A
KBU4D	Diotec	Full Wave	200V 4A
KBU4G	Diotec	Full Wave	400V 4A
KBU4J	Diotec	Full Wave	600V 4A
KBU4K	Diotec	Full Wave	800V 4A
KBU4M	Diotec	Full Wave	1000V 4A
MDA2500	Mot	Full Wave	50V 25A
MDA2501	Mot	Full Wave	100V 25A
MDA2502	Mot	Full Wave	200V 25A
MDA2504	Mot	Full Wave	400V 25A
MDA2506	Mot	Full Wave	600V 25A
MDA2508	Mot	Full Wave	800V 25A
MDA2510	Mot	Full Wave	1000V 25A
MDA3500	Mot	Full Wave	50V 35A
MDA3501	Mot	Full Wave	100V 35A
MDA3502	Mot	Full Wave	200V 35A
MDA3504	Mot	Full Wave	400V 35
MDA3506	Mot	Full Wave	600V 35A
MDA3508	Mot	Full Wave	800V 35A
MDA3510	Mot	Full Wave	1000V 35A
MDA4002	Mot	Full Wave	200V 40A
MDA4004	Mot	Full Wave	400V 40A
MDA4006	Mot	Full Wave	600V 40A
MDA4008	Mot	Full Wave	800V 40A

JFET Current Regulators [10]

Part #	Mfr.	Desc.	Specs.
J500	Silic	Cur. Reg.	100V .24mA
J502	Silic	Cur. Reg.	100V .43mA
J505	Silic	Cur. Reg.	100V 1mA
J508	Silic	Cur. Reg.	100V 2mA
J510	Silic	Cur. Reg.	100V 3.6mA
J553	Silic	Cur. Reg.	100V .5mA
J554	Silic	Cur. Reg.	100V 1mA
J555	Silic	Cur. Reg.	100V 2mA
J556	Silic	Cur. Reg.	100V 3mA
J557	Silic	Cur. Reg.	100V 4.5mA

Laser Diodes [1]

Part #	Mfr.	Desc.
HL7801E	Hitachi	GaAlAs

Photo Diodes [26]

Part #	Photosensitivity
BP104	700MA/W
BP104BS	590MA/W
BPW21	340MA/W
BPW32	500MA/W
BPW33	590MA/W
BPW34	620MA/W
BPW34B	200MA/W
BPW34F	590MA/W
BPW34FA	650MA/W
BPX48	550MA/W
BPX48F	650MA/W
BPX60	200MA/W
BPX61	620MA/W
BPX63	500MA/W
BPX65	550MA/W
BPX66	550MA/W
BPX90	480MA/W
BPX90F	480MA/W
BPX91B	200MA/W
BPX92	500MA/W
BPY12	600MA/W
BPY12H1	600MA/W
MRD500	6.6MA/W
MRD510	1.5MA/W
MRD721	5MA/W
MRD821	50MA/W

Generic Diodes [3]

Type	Desc.	Parameters
Diode	Switching	IMAX, VMAX, TRR
Zener	Low V	Zener Voltage
Zener	High V	Zener Voltage

Standard Electronic Devices - Transistors

(# of Transistors - 690)

The components that appear in the model libraries were taken from user requests, as well as from suggestions from major hardware vendors around the world. A wide variety of Japanese and European parts are represented in Intusoft's model libraries.

NPN Transistors [214]

Part #	Mfr.	Desc.	Specs.
2N918	Mot	Amplifier	15V 50mA
2N2102	Mot	Gen. Purp.	65V 1A
2N2218	Mot	Gen. Purp.	30V 800mA
2N2218A	Mot	Gen. Purp.	40V 800mA
2N2219	Mot	Gen. Purp.	30V 800mA
2N2219A	Mot	Gen. Purp.	40V 800mA
2N2221	Mot	Gen. Purp.	30V 800mA
2N2221A	Mot	Gen. Purp.	40V 800mA
2N2222	Mot	Gen. Purp.	30V 800mA
2N2222A	Mot	Gen. Purp.	40V 800mA
2N2243	Mot	Amplifier	80V .5A
2N2368	Mot	Switching	15V 200mA
2N2369	Mot	Switching	15V 200mA
2N2369A	Mot	Switching	15V 200mA
2N2453	Mot	Amplifier	30V .05A
2N2453A	Mot	Amplifier	50V .05A
2N2484	Mot	Amplifier	60V 50mA
2N2710	Mot	Switching	20V 500mA
2N2920	Mot	Amplifier	60V .03A
2N3019	Mot	General	80V 1A
2N3020	Mot	General	80V 1A
2N3227	Mot	Switching	20V 200mA
2N3506	Mot	Switching	40V 3A
2N3507	Mot	Switching	50V 3A
2N3700	Nat	Med. Pwr.	80V 1A
2N3866	Mot	Amplifier	30V 400mA
2N3904	Mot	Switching	60V 200mA
2N4124	Mot	Amplifier	25V 200mA
2N4239	Mot	General	80V 1A
2N4265	Mot	General	12V 200mA
2N4275	Nat	Switching	40V 100mA
2N4401	Mot	General	60V 600mA
2N5088	Mot	Amplifier	30V 50mA
2N5179	Nat	Amplifier	20V 60mA
2N5209	Mot	Amplifier	50V 50mA
2N5210	Mot	Amplifier	50V 50mA
2N5582	Mot	Gen. Purp.	15V 300mA
2N5770	Nat	Switching	15V 300mA
2N6715	Zetex		
2SC27	Fujitsu	Amplifier	25V .1A
2SC458	Hit	Switching	30V .1A
2SC627F	Fujitsu	Switching	200V .1A
2SC641	Hit	Switching	40V .1A
2SC710	Fujitsu	RF	25V 30MA
2SC727	Fujitsu	Switching	100V .1A
2SC728	Fujitsu	Switching	200V .1A
2SC827	Fujitsu	Switching	60V .5A
2SC850	Fujitsu	Amplifier	30V .5A
2SC913	Fujitsu	Switching	35V .3A
2SC914	Fujitsu	Switching	35V .3A
2SC915	Fujitsu	Switching	20V .3A
2SC916	Fujitsu	Switching	70V 1.5A
2SC1213A	Hit	Amplifier	50V .5A

Part #	Mfr.	Desc.	Specs.
2SC2551	Tosh	High Volt.	300 V .1A
2SC2655	Tosh	Amplifier	50 V 2A
2SC2703	Tosh	Amplifier	30 V 1A
2SC2705	Tosh	High Volt.	150 V 50MA
2SC2710	Tosh	Amplifier	30 V .8A
2SC2713	Tosh	Amplifier	30 V .8A
2SC2715	Tosh	Amplifier	30 V 50MA
2SC2859	Tosh	Switching	30 V .5A
2SC2873		Zetex	
2SC2880	Tosh	High Volt.	150 V 50MA
2SD1041	Fujitsu	High Volt.	300 V .1A
2SC1819M	Mat	Amplifier	300V .1A
2SC1847	Mat	Amplifier	40V 1.5A
2SC1905	Mat	Amplifier	300V .2A
2SC1953	Mat	Amplifier	150V 50MA
2SC2209	Mat	Amplifier	40V 1.5A
2SC2258	Mat	Amplifier	250V .1A
2SC2497	Mat	Amplifier	50V 1.5A
2SC2497A	Mat	Amplifier	60V 1.5A
2SC2556	Mat	Amplifier	40V 1A
2SC2556A	Mat	Amplifier	50V 1A
2SC2582	Mat	Amplifier	35V 1A
2SC2590	Mat	Amplifier	120V .5A
2SC2591	Mat	Amplifier	150V 1A
2SC2592	Mat	Amplifier	180V 1A
2SC2594	Mat	Amplifier	20V 5A
2SC2631	Mat	Amplifier	150V 50MA
2SC2632	Mat	Amplifier	150V 50MA
2SC2633	Mat	Amplifier	150V 50MA
2SC2637	Mat	Amplifier	300V .1A
2SC2653	Mat	Amplifier	300V .2A
2SC2738	Mat	Amplifier	400V 2A
2SC2923	Mat	Amplifier	300V .1A
2SC3063	Mat	Amplifier	300V .1A
2SC3187	Mat	Amplifier	300V .1A
2SC3600	San	Amplifier	200V .1A
BC107A	Mot	General	45V 200mA
BC107BP		Zetex	
BC108B	Mot	General	25V 200mA
BC108BP		Zetex	
BC109BP		Zetex	
BC109C	Mat	General	25V 200mA
BC182BP		Zetex	
BC183BP		Zetex	
BC184BP		Zetex	
BC237BP		Zetex	
BC238BP		Zetex	
BC239BP		Zetex	
BC337	Nat	Gen. Purp.	45V 500mA
BC337AP		Zetex	
BC338	Phil	Amplifier	25V 500mA
BC338AP		Zetex	
BC368	Nat	Gen. Purp.	25V 100mA
BC413BP		Zetex	

Legend	
Mot	- Motorola
Uni	- Unitorde
Sili	- Siliconix
Phil	- Philips
Siem	- Siemens
HP	- Hewlett-Packard
Nat	- National
Rex	- Powerex
TI	- Texas Instruments
Specs. - Maximum Voltage and Current	

BC414BP	Zetex		
BC546	Nat	Gen. Purp.	65V 100mA
BC546BP	Zetex		
BC547	Nat	Gen. Purp.	45V 100mA
BC547BP	Zetex		
BC548	Nat	Gen. Purp.	20V 100mA
BC548BP	Zetex		
BC549BP	Zetex		
BC550	Nat	Gen. Purp.	45V 100mA
BC550BP	Zetex		
BC635	Mot	Amplifier	45V 1A
BC637	Mot	Amplifier	60V 1A
BC639	Mot	Amplifier	80V 1A
BC817	Phil	Amplifier	45V 500mA
BC818	Phil	Amplifier	25V 500mA
BC846	Phil	Amplifier	65V 100mA
BC846B	Zetex		
BC847	Phil	Amplifier	45V 100mA
BC847B	Zetex		
BC848	Phil	Amplifier	30V 100mA
BC848B	Zetex		
BC849B	Zetex		
BC850B	Zetex		
BCP68	Phil	Low Volt.	20V 1A
BCV72	Zetex		
BCW32	Zetex		
BCW60C	Zetex		
BCW65A	Zetex		
BCW66F	Zetex		
BCW72	Zetex		
BCX70G	Nat	Gen. Purp.	45V 1A
BCX70J	Zetex		
BCY58-7	Phil	Amplifier	32V .2A
BCY58-8	Phil	Amplifier	32V .2A
BCY58-9	Phil	Amplifier	32V .2A
BCY59X	Phil	Amplifier	32V 200mA
BCY59-10	Phil	Amplifier	45V .2A
BCY59-7	Phil	Amplifier	45V .2A
BCY59-9	Phil	Amplifier	45V .2A
BCY65-7	Phil	Amplifier	60V .2A
BCY65-8	Phil	Amplifier	60V .2A
BCY65-9	Phil	Amplifier	60V .2A
BF469S	Tele	Audio	250V .03A
BF471S	Tele	Audio	300V .03A
BF554	Siem	RF	20V 30mA
BFQ31	Zetex		
BFS60	Zetex		
BFY50	Phil	Gen. Purp.	80V 1A
BSR13	Phil	Gen. Purp.	30V .8A
BSR14	Phil	Gen. Purp.	40V .8A
BSV52	Mot	Switching	12V .2A
BSY95A	Phil	Switching	20V .1A
FCX458	Zetex		
FCX649	Zetex		
FMMT918	Zetex		
FMMTA20	Zetex		
FZT649	Zetex		
FZT651	Zetex		
FZT657	Zetex		
FZT658	Zetex		
FZT688B	Zetex		
FZT689B	Zetex		
FZT690B	Zetex		
FZT692B	Zetex		
FZT694B	Zetex		
FZT696B	Zetex		
MPS3903	Mot	Gen. Purp.	40V 200mA
MPSA06	Mot	Amplifier	80V 500mA
MPSA18	Mot	Low Noise	45V 200mA
MPSA20	Zetex		
MPSA42	Mot	High Volt.	300V 500mA
MPSA43	Mot	High Volt.	200V 500mA
MPSA44	Mot	High Volt.	400V 300mA
MPSA45	Mot	High Volt.	350V 300mA
MPSW42	Mot	High Volt.	300V 500mA

MPSW43	Mot	High Volt.	200V 500mA
ZTX107	Zetex		
ZTX107B	Zetex		
ZTX108	Zetex		
ZTX108B	Zetex		
ZTX109	Zetex		
ZTX109B	Zetex		
ZTX237	Zetex		
ZTX237B	Zetex		
ZTX238	Zetex		
ZTX238B	Zetex		
ZTX239	Zetex		
ZTX239B	Zetex		
ZTX320	Zetex		
ZTX321	Zetex		
ZTX337A	Zetex		
ZTX338A	Zetex		
ZTX450	Zetex		
ZTX454	Zetex		
ZTX455	Zetex		
ZTX458	Zetex		
ZTX649	Zetex		
ZTX650	Zetex		
ZTX651	Zetex		
ZTX657	Zetex		
ZTX658	Zetex		
ZTX688B	Zetex		
ZTX689B	Zetex		
ZTX690B	Zetex		
ZTX692B	Zetex		
ZTX694B	Zetex		
ZTX696B	Zetex		

PNP Transistors [259]

Part #	Mfr.	Desc.	Specs.
2N2904	Mot	Gen. Purp.	40V 600mA
2N2904A	Mot	Gen. Purp.	60V 600mA
2N2905	Mot	Gen. Purp.	40V 600mA
2N2905A	Mot	Gen. Purp.	60V 600mA
2N2906	Mot	Gen. Purp.	40V 600mA
2N2906A	Mot	Gen. Purp.	60V 600mA
2N2907	Mot	Gen. Purp.	40V 600mA
2N2907A	Mot	Gen. Purp.	60V 600mA
2N2955	Mot	Ge Mesa	25V 100mA
2N3135	Mot	Switching	35V 600mA
2N3249	Mot	Switching	12V 100mA
2N3250	Mot	Switching	40V 200mA
2N3250A	Mot	Switching	60V 200mA
2N3485	Mot	Switching	40V 600mA
2N3485A	Mot	Switching	60V 600mA
2N3486	Mot	Switching	40V 600mA
2N3486A	Mot	Switching	60V 600mA
2N3634	Mot	Switching	12V 100mA
2N3636	Mot	Switching	175V 1A
2N3638	Nat	Gen. Purp.	35V 500mA
2N3640	Nat	Switch	15V 100mA
2N3906	Mot	Gen. Purp.	40V 200mA
2N4126	Mot	Amplifier	25V 200mA
2N4209	Mot	Switching	15V 200mA
2N4258	Nat	Switching	12V 100mA
2N4402	Mot	Gen. Purp.	40V 600mA
2N4403	Mot	Gen. Purp.	40V 600mA
2N5086	Mot	Amplifier	50V 50mA
2N5087	Mot	Amplifier	50V 50mA
2N5771	Mot	Switching	15V 50mA
2N6727	Zetex		
2SA580	Fuji	Amplifier	40V .6A 50Mhz
2SA625	Fuji	Amplifier	70V .5A 50Mhz
2SA673	Hit	Amplifier	35V .5A
2SA673A	Hit	Amplifier	50V.5A

2SA673AB	Hit	Amplifier	50V .5A	2SB902	Mat	Amplifier	25V .1A
2SA673AC	Hit	Amplifier	50B .5A	2SB956	Mat	Amplifier	20V 1A
2SA673AD	Hit	Amplifier	50B .5A	2SB968	Mat	Amplifier	40V 1.5A
2SA778AK	Hit	Switching	180V .05A	2SB970	Mat	Amplifier	10V .5A
2SA778K	Hit	Switching	150V .05A	2SB987	Mat	Amplifier	120V .5A
2SA781K	Hit	Switching	15V .2A	2SB1011	Mat	Amplifier	400V .1A
2SA836	Phil	Amplifier	55V .1A	2SB1206	Mat	Amplifier	25V .1A
2SA844C	Hit	Amplifier	55V .1A	2SB1207	Mat	Amplifier	10V .5A
2SA844D	Hit	Amplifier	55V .1A	2SB1209	Mat	Amplifier	400V .1A
2SA844E	Hit	Amplifier	55V .1A	2SB1218A	Mat	Amplifier	45V .1A
2SA872AD	Hit	Amplifier	120V .05A	2SB1218	Mat	Amplifier	25V .1A
2SA872AE	Hit	Amplifier	120V .05A	2SB1219	Mat	Amplifier	25V .5A
2SA872D	Hit	Amplifier	90V .05A	2SB1219A	Mat	Amplifier	50V .5A
2SA872E	Hit	Amplifier	90V .05A	2SB1220	Mat	Amplifier	150V 50MA
2SA879	Mat	Amplifier	200V 70MA	2SB1221	Mat	Amplifier	200V 70MA
2SA885	Mat	Amplifier	35V 1A	2SB1264	Mat	Amplifier	200V 70MA
2SA886	Mat	Amplifier	40V 1.5A	2SB1288	Mat	Amplifier	20V 5A
2SA893AD	Hit	Amplifier	120V .05A	2SB1297	Mat	Amplifier	120V .5A
2SA893AE	Hit	Amplifier	120V .05A	2SB1319	Mat	Amplifier	20V 5A
2SA893D	Hit	Amplifier	90V .05A	2SB1320A	Mat	Amplifier	50V .1A
2SA893E	Hit	Amplifier	90V .05A	2SB1321A	Mat	Amplifier	50V .5A
2SA939	Fuji	Amplifier	220V 50MA	2SB1322A	Mat	Amplifier	50V 1A
2SA1049	Tosh	Amplifier	120 V .1A	2SB1376	Mat	Amplifier	50V .1A
2SA1080	Fuji	Amplifier	40V .5A 30Mhz	2SB1377	Mat	Amplifier	50V .5A
2SA1091	Hit	High Volt.	300 V .1A	2SB1378	Mat	Amplifier	20V .5A
2SA1145	Tosh	Amplifier	150 V 50MA	2SB1413	Mat	Amplifier	25V 1A
2SA1150	Tosh	Amplifier	30 V .8A	2SB1414	Mat	Amplifier	180V 1A
2SA1162	Tosh	Low Noise	50 V .15A	2SB1437	Mat	Amplifier	100V 1A
2SA1163	Tosh	High Volt.	120 V .1A	2SB1438	Mat	Amplifier	100V 2A
2SA1200	Tosh	High Volt.	150 V 50MA	2SB1439	Mat	Amplifier	100V 2A
2SA1213	Zetex			2SB1440	Mat	Amplifier	50V 2A
2SA1255	Tosh	High Volt.	200 V 50MA	2SB1446	Mat	Amplifier	50V 5A
2SA913	Mat	Amplifier	150V 1A	2SB1447	Mat	Amplifier	50V 3A
2SA913A	Mat	Amplifier	180V 1A	2SB1456	Mat	Amplifier	150V 1A
2SA914	Mat	Amplifier	150V 50MA	2SB1462	Mat	Amplifier	50V .1A
2SA963	Mat	Amplifier	40V 1.5A	2SB1463	Mat	Amplifier	150V 50mA
2SA1018	Mat	Amplifier	200V 70MA	2SB1473	Mat	Amplifier	120V .5A
2SA1096	Mat	Amplifier	50V 2A	2SB1488	Mat	Amplifier	400V .5A
2SA1096A	Mat	Amplifier	60V 2A	BC177AP	Zetex		
2SA1128	Mat	Amplifier	20V .5A	BC178AP	Zetex		
2SA1185	Mat	Amplifier	50V 7A	BC212AP	Zetex		
2SA1213	Zetex			BC213AP	Zetex		
2SA1375	Mat	Amplifier	200V 70MA	BC307AP	Zetex		
2SA1406	Say	Amplifier	200V .1A	BC308AP	Zetex		
2SA1498	Mat	Amplifier	400V .6A	BC327	Siem	Amplifier	45V 500mA
2SA1499	Mat	Amplifier	400V .6A	BC327-16	Nat	Gen. Purp.	45V 500mA
2SA1500	Mat	Amplifier	400V 5A	BC328	Siem	Amplifier	25V 800mA
2SA1501	Mat	Amplifier	400V 5A	BC328-16	Nat	Amplifier	25V 800mA
2SA1512	Mat	Amplifier	20V .5A	BC369	Nat	Gen. Purp.	20V 2A
2SA1531	Mat	Amplifier	55V 50MA	BC415AP	Zetex		
2SA1533	Mat	Amplifier	80V .5A	BC416AP	Zetex		
2SA1531A	Mat	Amplifier	55V 50MA	BC556	Phil	Gen. Purp.	80V .2A
2SA1550	Mat	Amplifier	400V .5A	BC556AP	Zetex		
2SA1605	Mat	Amplifier	250V 70MA	BC557	Nat	Gen. Purp.	45V 500mA
2SA1614	Mat	Amplifier	400V .5A	BC557AP	Zetex		
2SA1674	Mat	Amplifier	80V 1A	BC558AP	Zetex		
2SA1698	Mat	Amplifier	200V 70MA	BC559AP	Zetex		
2SA1747	Mat	Amplifier	50V 50MA	BC560AP	Zetex		
2SA1748	Mat	Amplifier	50V 50MA	BC856	Phil	Amplifier	65V 100mA
2SA1762	Mat	Amplifier	80V .5A	BC856A	Zetex		
2SA1767	Mat	Amplifier	300V 70MA	BC857	Phil	Amplifier	45V 100mA
2SB709	Mat	Amplifier	25V .1A	BC857A	Zetex		
2SB709A	Mat	Amplifier	45V .1A	BC858	Phil	Amplifier	30V 100mA
2SB713	Mat	Amplifier	140V 9A	BC858A	Zetex		
2SB725	Mat	Amplifier	60V .1A	BC859A	Zetex		
2SB767	Mat	Amplifier	80V .5A	BC860A	Zetex		
2SB774	Mat	Amplifier	25V .1A	BCF70	Phil	Low Noise	45V 100mA
2SB779	Mat	Amplifier	20V .5A	BCP69	Phil	Low Volt	20V 1A
2SB789	Mat	Amplifier	100V .5A	BCW29	Zetex		
2SB789A	Mat	Amplifier	120V .5A	BCW61A	Zetex		
2SB790	Mat	Amplifier	20V .5A	BCW67A	Zetex		
2SB807	Mat	Amplifier	150V 50MA	BCW68F	Zetex		
2SB819	Mat	Amplifier	40V 1.5A	BCW69	Zetex		
2SB835	Mat	Amplifier	18V 1A	BCW89	Zetex		
2SB894	Mat	Amplifier	25V .1A	BCY70	Phil	Gen.Purp.	40V 200mA

Small Signal Transistors [259]

(PNP)

Part #	Mfr.	Desc.	Specs.
BCY71	Phil	Gen.Purp.	45V 200mA
BCY72	Phil	Gen.Purp.	25V 200mA
BCY78-10	Phil	Amplifier	32V .2A
BCY78-7	Phil	Amplifier	32V .2A
BCY78-8	Phil	Amplifier	32V .2A
BCY78-9	Phil	Amplifier	32V .2A
BCY79-7	Phil	Amplifier	45V .2A
BCY79-8	Phil	Amplifier	45V .2A
BCY79-9	Phil	Amplifier	45V .2A
BDB02A	Mot	Gen.Purp.	45V 500mA
BDB02B	Mot	Gen.Purp.	60V 500mA
BDB02C	Mot	Gen.Purp.	80V 500mA
BDB02D	Mot	Gen.Purp.	100V 500mA
BF470S	Tele	Audio	250V .03A
BF472S	Tele	Audio	300V .03A
BSR15	Phil	Gen.Purp.	40V .6A
BSR16	Phil	Gen.Purp.	60V .6A
BSV15-10	Phil	Gen.Purp.	40V 1A
BSV15-16	Phil	Gen.Purp.	40V 1A
BSV15-6	Phil	Gen.Purp.	40V 1A
BSV16-10	Phil	Gen.Purp.	60V 1A
BSV16-16	Phil	Gen.Purp.	60V 1A
BSV16-6	Phil	Gen.Purp.	60V 1A
BSV17-10	Phil	Gen.Purp.	80V 1A
BSV17-16	Phil	Gen.Purp.	80V 1A
BSV17-6	Phil	Gen.Purp.	80V 1A
FCX558	Zetex		
FCX749	Zetex		
FMMT597	Zetex		
FMMTA70	Zetex		
FZT749	Zetex		
FZT751	Zetex		
FZT757	Zetex		
FZT758	Zetex		
FZT788A	Zetex		
FZT788B	Zetex		
FZT789A	Zetex		
FZT790A	Zetex		
FZT792A	Zetex		
MPS6651	Mot	Amplifier	25V 1A
MPS6652	Mot	Amplifier	25V 1A
MPSW01	Mot	High Cur.	30V 1A
MPSW55	Mot	Amplifier	60V 500mA
MPSW56	Mot	Amplifier	80V 500mA
MPSW92	Mot	Amplifier	300V 500mA
MPSW93	Mot	Amplifier	300V 500mA
ZTX212	Zetex		
ZTX212A	Zetex		
ZTX213	Zetex		
ZTX214	Zetex		
ZTX214A	Zetex		
ZTX231A	Zetex		
ZTX550	Zetex		
ZTX558	Zetex		
ZTX749	Zetex		
ZTX750	Zetex		
ZTX751	Zetex		
ZTX758	Zetex		
ZTX788A	Zetex		
ZTX788B	Zetex		
ZTX789A	Zetex		
ZTX790A	Zetex		
ZTX792A	Zetex		
ZTX795A	Zetex		
ZTX796A	Zetex		
ZTX948	Zetex		
ZTX949	Zetex		
ZTX951	Zetex		
ZTX953	Zetex		

ZTX955	Zetex
ZTX956	Zetex
ZTX957	Zetex
ZTX958	Zetex
ZTX968	Zetex

Darlington Transistors [48]

(NPN/PNP)

Part #	Mfr.	Desc.	Specs.
2N6040	Mot	PNP	Med Pow 60V 8A
2N6041	Mot	PNP	Med Pow 80V 8A
2N6042	Mot	PNP	Med Pow 100V 8A
2N6043	Mot	NPN	Med Pow 60V 8A
2N6044	Mot	NPN	Med Pow 80V 8A
2N6045	Mot	NPN	Med Pow 100V 8A
2N6667	Mot	PNP	60V 10A
2N6668	Mot	PNP	80V 10A
BCX38B	Zetex	NPN	
BD331	SGS	NPN	Audio 60V 6A
BD332	SGS	PNP	Audio 60V 6A
BD333	SGS	NPN	Audio 80V 6A
BD334	SGS	PNP	Audio 80V 6A
BD335	SGS	NPN	Audio 100V 6A
BD336	SGS	PNP	Audio 100V 6A
BDV64	SGS	PNP	Linear 60V 12A
BDV64A	SGS	PNP	Linear 80V 12A
BDV64B	SGS	PNP	Linear 100V 12A
BDV65	SGS	NPN	Linear 60V 12A
BDV65A	SGS	NPN	Linear 80V 12A
BDV65B	SGS	NPN	Linear 100V 12A
BDW91	SGS	NPN	Switching 180V 4A
BDW92	SGS	PNP	Switching 180V 4A
BDW93	SGS	NPN	Linear 45V 12A
BDW93A	SGS	NPN	Linear 60V 12A
BDW93B	SGS	NPN	Linear 80V 12A
BDW93C	SGS	NPN	Linear 100V 12A
BDW94	SGS	PNP	Linear 45V 12A
BDW94A	SGS	PNP	Linear 60V 12A
BDW94B	SGS	PNP	Linear 80V 12A
BDW94C	SGS	PNP	Linear 100V 12A
BU323	Mot	NPN	Audio 350V 10A
BU323P	Mot	NPN	Audio 200V 50A
BU806	Mot	NPN	TV 200V 8A
BUT50P	Mot	NPN	SMP 500V 8A
FMMT38B	Zetex	NPN	
FZT604	Zetex	NPN	
FZT605	Zetex	NPN	
FZT705	Zetex	PNP	
KS621K60	Power	NPN	High Cur. 1000V 600A
KS624540	Power	NPN	High Cur. 450V 400A
MJ10005	Mot	NPN	SMP 400V 20A
MMBTA13	Mot	NPN	Amplifier 30V 300mA
MMBTA14	Mot	NPN	Amplifier 30V 300mA
ZTX604	Zetex	NPN	
ZTX605	Zetex	NPN	
ZTX704	Zetex	PNP	
ZTX705	Zetex	PNP	

Power Transistors [255]

(NPN/PNP)

Part #	Mfr.	Desc.	Specs.
2N242	Mot	PNP	Germanium35V 5A
2N3054A	Mot	NPN	Med Pow 55V 4A
2N3055	Mot	NPN	High Spd. 60V 15A
2N3447	Mot	NPN	High Spd. 60V 7.5A
2N3448	Mot	NPN	High Spd. 80V 7.5A
2N3583	Mot	NPN	Med Pow 175V 1A
2N3584	Mot	NPN	Med Pow 250V 2A
2N3585	Mot	NPN	Med Pow 300V 2A
2N3766	Mot	NPN	Med Pow 60V 4A
2N3767	Mot	NPN	Med Pow 80V 4A
2N3789	Mot	PNP	Med Pow 80V 4A
2N3790	Mot	PNP	Med Pow 80V 4A
2N3791	Mot	PNP	Med Pow 80V 4A
2N3792	Mot	PNP	Med Pow 80V 4A
2N3879	Mot	NPN	Med Pow 100V 7A
2N4030	Mot	PNP	Med Pow 60V 1A
2N4233A	Mot	NPN	Med Pow 80V 5A
2N4899	Mot	PNP	Med Pow 60V 4A
2N4911	Mot	NPN	Med Pow 60V 4A
2N4919	Mot	PNP	Med Pow 60V 1A
2N4922	Mot	NPN	Med Pow 60V 1A
2N5190	Mot	NPN	Amp. 40V 4A
2N5193	Mot	PNP	Amp. 40V 4A
2N5303	Mot	NPN	Amp. 100V 30A
2N5336	Mot	NPN	Med Pow 80V 5A
2N5337	Mot	NPN	Med Pow 80V 5A
2N5338	Mot	NPN	Med Pow 100V 5A
2N5339	Mot	NPN	Med Pow 100V 5A
2N5428	Mot	NPN	Med Pow 80V 7A
2N5430	Mot	NPN	Med Pow 100V 7A
2N5884	Mot	PNP	Med Pow 80V 25A
2N5886	Mot	NPN	Med Pow 80V 25A
2N6191	Mot	PNP	Med Pow 80V 5A
2N6277	Mot	NPN	Amp. 150V 50A
2N6420	Mot	PNP	High Volt. 170V 1A
2N6421	Mot	PNP	High Volt. 250V 2A
2N6422	Mot	PNP	High Volt. 300V 2A
2N6833	Mot	NPN	Switch 450V 5A
2N6836	Mot	NPN	Switch 450V 15A
2SA968B	Mot	PNP	Audio
2SA1040	Fuji	PNP	Power 120V 10A
2SA1041	Fuji	PNP	Power 120V 15A
2SA1042	Fuji	PNP	Power 70V 15A
2SA1043	Fuji	PNP	Power 120V 30A
2SA1044	Fuji	PNP	Power 70V 30A
2SA1072	Fuji	PNP	Power 120V 12A
2SA1073	Fuji	PNP	Power 160V 12A
2SA1077	Fuji	PNP	Power 120V 10A
2SA1078	Fuji	PNP	Power 120V 2A
2SA1182	Tosh	PNP	Power 30 V .5A
2SA1201	Tosh	PNP	Power 120 V .8A
2SA1202	Tosh	PNP	Power 80 V .4A
2SA1203	Tosh	PNP	Power 30 V 1.5A
2SA1204	Tosh	PNP	Power 30 V .8A
2SA1296	Tosh	PNP	Power 20 V 2A
2SA1297	Tosh	PNP	Power 20 V 2A
2SA1298	Tosh	PNP	Power 25 V .8A
2SA1302	Mot	PNP	Audio 200V 15A
2SA1306B	Mot	PNP	Audio 200V 1.5A
2SB867	Mat	PNP	Power 80V 3A
2SB868	Mat	PNP	Power 80V 4A
2SB869	Mat	PNP	Power 80V 5A
2SB870	Mat	PNP	Power 80V 7A
2SB871	Mat	PNP	Power 20V 10A
2SB871A	Mat	PNP	Power 40V 10A
2SB873	Mat	PNP	Power 20V 5A
2SB896	Mat	PNP	Power 20V 10A
2SB925	Mat	PNP	Power 20V 7A
2SB931	Mat	PNP	Power 80V 3A
2SB932	Mat	PNP	Power 80V 4A
2SB933	Mat	PNP	Power 80V 5A
2SB934	Mat	PNP	Power 80V 7A
2SB935	Mat	PNP	Power 20V 10A
2SB935A	Mat	PNP	Power 40V 10A
2SB936	Mat	PNP	Power 20V 10A
2SB936A	Mat	PNP	Power 40V 10A
2SB943	Mat	PNP	Power 80V 3A
2SB944	Mat	PNP	Power 80V 4A
2SB945	Mat	PNP	Power 80V 5A
2SB946	Mat	PNP	Power 80V 7A
2SB947	Mat	PNP	Power 20V 10A
2SB947A	Mat	PNP	Power 40V 10A
2SB948	Mat	PNP	Power 20V 10A
2SB948A	Mat	PNP	Power 40V 10A
2SB952	Mat	PNP	Power 20V 7A
2SB952A	Mat	PNP	Power 40V 7A
2SB953	Mat	PNP	Power 20V 7A
2SB953A	Mat	PNP	Power 40V 7A
2SB967	Mat	PNP	Power 18V 5A
2SB976	Mat	PNP	Power 18V 5A
2SB1050	Mat	PNP	Power 20V 5A
2SB1054	Mat	PNP	Power 100V 5A
2SB1055	Mat	PNP	Power 120V 6A
2SB1056	Mat	PNP	Power 140V 7A
2SB1057	Mat	PNP	Power 150V 9A
2SB1062	Mat	PNP	Power 10V .5A
2SB1063	Mat	PNP	Power 100V 5A
2SB1069	Mat	PNP	Power 20V 4A
2SB1069A	Mat	PNP	Power 40V 4A
2SB1070	Mat	PNP	Power 20V 4A
2SB1070A	Mat	PNP	Power 40V 4A
2SB1071	Mat	PNP	Power 20V 4A
2SB1071A	Mat	PNP	Power 40V 4A
2SB1073	Mat	PNP	Power 20V 4A
2SB1075	Mat	PNP	Power 40V 2A
2SB1148	Mat	PNP	Power 20V 10A
2SB1148A	Mat	PNP	Power 40V 10A
2SB1154	Mat	PNP	Power 80V 10A
2SB1155	Mat	PNP	Power 80V 15A
2SB1156	Mat	PNP	Power 80V 20A
2SB1158	Mat	PNP	Power 120V 6A
2SB1157	Mat	PNP	Power 100V 5A
2SB1159	Mat	PNP	Power 140V 7A
2SB1160	Mat	PNP	Power 150V 9A
2SB1161	Mat	PNP	Power 160V 12A
2SB1162	Mat	PNP	Power 160V 12A
2SB1163	Mat	PNP	Power 180V 15A
2SB1174	Mat	PNP	Power 80V 3A
2SB1175	Mat	PNP	Power 80V 4A
2SB1176	Mat	PNP	Power 80V 5A
2SB1177	Mat	PNP	Power 80V 7A
2SB1190	Mat	PNP	Power 150V 1A
2SB1190A	Mat	PNP	Power 180V 1A
2SB1191	Mat	PNP	Power 150V 1A
2SB1191A	Mat	PNP	Power 180V 1A
2SB1192	Mat	PNP	Power 150V 1A
2SB1192A	Mat	PNP	Power 180V 1A
2SB1233	Mat	PNP	Power 150V 1A
2SB1233A	Mat	PNP	Power 180V 1A
2SB1250	Mat	PNP	Power 80V 3A
2SB1251	Mat	PNP	Power 90V 4A
2SB1252	Mat	PNP	Power 100V 5A
2SB1253	Mat	PNP	Power 110V 6A
2SB1254	Mat	PNP	Power 140V 7A
2SB1255	Mat	PNP	Power 140V 7A
2SB1317	Mat	PNP	Power 180V 15A
2SB1347	Mat	PNP	Power 160V 12A
2SB1361	Mat	PNP	Power 150V 9A
2SB1362	Mat	PNP	Power 150V 9A
2SB1371	Mat	PNP	Power 120V 6A
2SB1372	Mat	PNP	Power 140V 7A
2SB1373	Mat	PNP	Power 160V 12A
2SB1393	Mat	PNP	Power 60V 3A

Power Transistors [255]

(NPN/PNP)

Part # Mfr. Desc. Specs.

2SB1393A	Mat	PNP	Power	80V 3A
2SB1417	Mat	PNP	Power	60V 3A
2SB1417A	Mat	PNP	Power	80V 3A
2SB1434	Mat	PNP	Power	50V 2A
2SB1464	Mat	PNP	Power	60V 8A
2SB1469	Mat	PNP	Power	140V 7A
2SB1470	Mat	PNP	Power	160V 8A
2SB1490	Mat	PNP	Power	140V 7A
2SC2238B	Mot	NPN	Audio	
2SC2432	Fujitsu	NPN	Power	70V 15A
2SC2433	Fujitsu	NPN	Power	120V 30A
2SC2434	Fujitsu	NPN	Power	70V 30A
2SC2500	Toshiba	NPN	Power	30 V 2A
2SC2873	Toshiba	NPN	Power	50 V 2A
2SC2881	Tosh	NPN	Power	120 V .8A
2SC2882	Tosh	NPN	Power	80 V .4A
2SC2883	Tosh	NPN	Power	30 V 1.5A
2SC2884	Tosh	NPN	Power	30 V .8A
2SC3842	Fujitsu	NPN	Power	400V 10A
2SC3843	Fujitsu	NPN	Power	450V 10A
2SC3844	Fujitsu	NPN	Power	450V 15A
2SC3845	Fujitsu	NPN	Power	800V 3A
2SC3846	Fujitsu	NPN	Power	800V 6A
2SC3847	Fujitsu	NPN	Power	800V 10A
2SD1035	Fujitsu	NPN	Power	120V 3A
2SD1036	Fujitsu	NPN	Power	120V 15A
2SD1037	Fujitsu	NPN	Power	120V 30A
2SD1038	Fujitsu	NPN	Power	120V 40A
2SD1039	Fujitsu	NPN	Power	120V 3A
2SD1040	Fujitsu	NPN	Power	120V 15A
2SC2739	Mat	NPN	Power	400V 7A
2SC2740	Mat	NPN	Power	400V 10A
2SC2831	Mat	NPN	Power	500V 1.5A
2SC2832	Mat	NPN	Power	500V 5A
2SC2834	Mat	NPN	Power	500V 7A
2SC2841	Mat	NPN	Power	400V 7A
2SC3169	Mat	NPN	Power	400V 2A
2SC3170	Mat	NPN	Power	400V 7A
2SC3171	Mat	NPN	Power	400V 10A
2SC3210	Mat	NPN	Power	400V 10A
2SC3211	Mat	NPN	Power	500V 5A
2SC3212	Mat	NPN	Power	500V 7A
2SC3285	Mat	NPN	Power	800V 3A
2SC3281	Mot	NPN	Audio	200V 15A
2SC3298B	Mot	NPN	Audio	200V 1.5A
2SC3506	Mat	NPN	Power	800V 3A
2SC3507	Mat	NPN	Power	800V 5A
2SC3527	Mat	NPN	Power	400V 15A
2SC3528	Mat	NPN	Power	400V 20A
2SC3577	Mat	NPN	Power	650V 5A
BD135	SGS	NPN	Linear	45V 1.5A
BD136	SGS	PNP	Linear	45V 1.5A
BD137	SGS	NPN	Linear	60V 1.5A
BD139	SGS	NPN	Linear	80V 1.5A
BD138	SGS	PNP	Linear	60V 1.5A
BD140	SGS	PNP	Linear	80V 1.5A
BD175-10	SGS	NPN	Med Pow	45V 3A
BD175-16	SGS	NPN	Med Pow	45V 3A
BD175-6	SGS	NPN	Med Pow	45V 3A
BD176-10	SGS	PNP	Med Pow	45V 3A
BD176-6	SGS	PNP	Med Pow	45V 3A
BD177-10	SGS	NPN	Med Pow	60V 3A
BD177-6	SGS	NPN	Med Pow	60V 3A
BD178-10	SGS	PNP	Med Pow	60V 3A
BD178-6	SGS	PNP	Med Pow	60V 3A
BD179-10	SGS	NPN	Med Pow	80V 3A
BD179-6	SGS	NPN	Med Pow	80V 3A
BD180-10	SGS	PNP	Med Pow	80V 3A
BD180-6	SGS	PNP	Med Pow	80V 3A

BD233	SGS	NPN	Med Pow	45V 2A
BD234	SGS	PNP	Med Pow	45V 2A
BD235	SGS	NPN	Med Pow	60V 2A
BD236	SGS	PNP	Med Pow	60V 2A
BD237	SGS	NPN	Med Pow	100V 2A
BD238	SGS	PNP	Med Pow	100V 2A
BD905	SGS	NPN	Med Pow	40V 15A
BDW51	SGS	NPN	Linear	45V 15A
BDW51A	SGS	NPN	Linear	60V 15A
BDW51B	SGS	NPN	Linear	80V 15A
BDW51C	SGS	NPN	Linear	100V 15A
BDW52	SGS	PNP	Linear	45V 15A
BDW52A	SGS	PNP	Linear	60V 15A
BDW52B	SGS	PNP	Linear	80V 15A
BDW52C	SGS	PNP	Linear	100V 15A
BSW67	SGS	NPN	High Volt.	120V 2A
BSW68	SGS	NPN	High Volt.	150V 2A
BU208D	SGS	NPN	TV	1500V 8A
BU326	Mot	NPN	Switching	375V 6A
BU406D	Mot	NPN	Switching	200V 7A
BUT92A	SGS	NPN	Switching	300V 50A
BUX21	SGS	NPN	Switching	200V 7A
FMMT597Q	Zetex	PNP		
MJ2955	Mot	PNP	Gen. Purp.	60V 15A
MJ13330	Mot	NPN	Switching	200V 20A
MJ13333	Mot	NPN	Switching	400V 20A
MJ14000	Mot	NPN	High Cur.	60V 60A
MJ14001	Mot	PNP	High Cur.	60V 60A
MJ14002	Mot	NPN	High Cur.	80V 60A
MJ14003	Mot	PNP	High Cur.	80V 60A
MJ15003	Mot	NPN	Audio	140V 20A
MJ15004	Mot	PNP	Audio	140V 20A
MJE15028	Mot	NPN	Audio	120V 8A
MJE15029	Mot	PNP	Audio	120V 8A
MJE15030	Mot	NPN	Audio	150V 8A
MJE15031	Mot	PNP	Audio	150V 8A
TIP32	TI	PNP	Gen. Purp.	40V 3A
TIP32A	Mot	PNP	Gen. Purp.	60V 3A
TIP32B	Mot	PNP	Gen. Purp.	80V 3A
TIP32C	Mot	PNP	Gen. Purp.	100V 3A
TIP35	Mot	NPN	Power	80V 25A
TIP36	Mot	PNP	Power	80V 25A
TIP47	TI	NPN	Audio	250V 1A

Special Library - RF Electronic Devices

(# of Devices - 307)

A special RF device library is available separately from the standard ICAP model libraries. This library offers high frequency models that are characterized up to their published s-parameter data. All of the models use a custom subcircuit representation that accounts for the device's package parasitics.

BIPOLAR TRANSISTORS (201)

Part #	Mfr.	Type	Bias/Package				
2N2857	Mot	NPN	6V 1.5mA	BFP91A	Phil	NPN	SOT173
2N4957	Mot	PNP	10V 2mA	BFP96	Phil	NPN	SOT173
2N5109	Mot	NPN	15V 35mA	BFQ135	Phil	NPN	ST172A2A
2N5179RF	Mot	NPN	6V 5mA	BFQ162	Phil	NPN	SOT32C
2N5944	Mot	NPN	Class C	BFQ163	Phil	NPN	SOT5C (TO39)
2N6304	Mot	NPN	10V 10mA	BFQ166	Phil	NPN	SOT223A
2N6305	Mot	NPN	10V 10mA	BFQ23	Phil	PNP	SOT37
2N6604	Mot	NPN	10V 10mA	BFQ232	Phil	NPN	SOT32A
2N6618	Mot	NPN	10V 3mA	BFQ233	Phil	NPN	SOT5A (TO39)
2N6679	Mot	NPN	15V 25mA	BFQ236	Phil	NPN	SOT223A
AT42070	H-P	NPN	8V 35mA	BFQ23C	Phil	PNP	SOT173
AT64020	H-P	NPN	16V 110mA	BFQ252	Phil	PNP	SOT32A
AT64023	H-P	NPN	16V 110mA	BFQ253	Phil	PNP	SOT5A (TO39)
BF430	Phil	NPN	10V 10mA	BFQ256	Phil	PNP	SOT223A
BF433	Phil	NPN	10V 50mA	BFQ262	Phil	NPN	SOT32B
BFQ134	Phil	NPN	SOT103	BFQ263	Phil	NPN	SOT5B (TO39)
BFQ135	Phil	NPN	SOT223A	BFQ270	Phil	NPN	ST172A2D
BFQ195	Phil	NPN	SOT103	BFQ32	Phil	PNP	SOT37
BFQ197	Phil	NPN	SOT143	BFQ32C	Phil	PNP	SOT173
BFQ197X	Phil	NPN	SOT143XR	BFQ33C	Phil	NPN	SOT173
BFQ198	Phil	NPN	8V 50mA	BFQ34T	Phil	NPN	SOT37
BFQ198	Phil	NPN	8V 50mA	BFQ51	Phil	PNP	10V 10mA
BFQ199	Phil	NPN	10V 50mA	BFQ51C	Phil	PNP	SOT173
BFQ23	Phil	PNP	SOT103	BFQ65	Phil	NPN	SOT37
BFQ25AX	Phil	NPN	SOT143X	BFQ66	Phil	NPN	SOT173
BFQ31	Phil	PNP	SOT223C	BFQ67	Phil	NPN	SOT23
BFQ32	Phil	PNP	SOT103	BFQ67W	Phil	NPN	SOT323
BFQ33	Phil	NPN	SOT143	BFR106	Phil	NPN	SOT23
BFQ33X	Phil	NPN	SOT143X	BFR134	Phil	NPN	SOT37
BFQ34	Phil	NPN	SOT103	BFR505	Phil	NPN	SOT23
BFQ35	Phil	NPN	SOT223C	BFR520	Phil	NPN	SOT23
BFQ505	Phil	NPN	SOT143	BFR521	Phil	NPN	SOT37
BFQ505X	Phil	NPN	SOT143X	BFR540	Phil	NPN	SOT23
BFQ505XR	Phil	NPN	SOT143XR	BFR541	Phil	NPN	SOT37
BFQ51	Phil	PNP	SOT103	BFR90	Phil	NPN	10V 10mA
BFQ520	Phil	NPN	SOT143	BFR90A	Phil	NPN	SOT37
BFQ520X	Phil	NPN	SOT143X	BFR91	Phil	NPN	10V 10mA
BFQ520XR	Phil	NPN	SOT143XR	BFR91A	Phil	NPN	SOT37
BFQ540	Phil	NPN	SOT143	BFR92A	Phil	NPN	SOT23
BFQ540X	Phil	NPN	SOT143X	BFR92AW	Phil	NPN	SOT323
BFQ540XR	Phil	NPN	SOT143XR	BFR93	Phil	NPN	8V 20mA
BFQ541	Phil	NPN	SOT223A	BFR93A	Phil	NPN	SOT23
BFQ65	Phil	NPN	SOT103	BFR93AW	Phil	NPN	SOT323
BFQ67	Phil	NPN	SOT143	BFR96	Phil	NPN	10V 25mA
BFQ67R	Phil	NPN	SOT143R	BFR96S	Phil	NPN	SOT37
BFQ67XR	Phil	NPN	SOT143XR	BFS25A	Phil	NPN	SOT323
BFQ90A	Phil	NPN	SOT103	BFS505	Phil	NPN	SOT323
BFQ91A	Phil	NPN	SOT103	BFS520	Phil	NPN	SOT323
BFQ92A	Phil	NPN	SOT143	BFS540	Phil	NPN	SOT323
BFQ92AX	Phil	NPN	SOT143X	BFS540	Phil	NPN	SOT323
BFQ92AXR	Phil	NPN	SOT143XR	BFT25A	Phil	NPN	SOT23
BFQ93A	Phil	NPN	SOT143	BFT92	Phil	PNP	SOT23
BFQ93AX	Phil	NPN	SOT143X	BFT92W	Phil	PNP	SOT323
BFQ93AXR	Phil	NPN	SOT143XR	BFT93	Phil	PNP	SOT23
BFQ94	Phil	NPN	SOT223C	BFT93W	Phil	PNP	SOT323
BFQ96	Phil	NPN	SOT103	BFX89	Phil	NPN	10V 10mA
BFQ97	Phil	NPN	10V 50mA	BFY90	Phil	NPN	10V 10mA
BFP90A	Phil	NPN	SOT173	BLT50	Phil	NPN	SOT223C
				BP8F1	Phil	NPN	6V 10mA
				HP00500	H-P	NPN	Gen Purp
				HP00510	H-P	NPN	Gen Purp

HP00511	H-P	NPN	Gen Purp
HP00535	H-P	NPN	Gen Purp
HP00570	H-P	NPN	Gen Purp
HP01600	H-P	NPN	Gen Purp
HP01610	H-P	NPN	Gen Purp
HP01635	H-P	NPN	Gen Purp
HP01670	H-P	NPN	Gen Purp
HP21400	H-P	NPN	Oscillator
HP41400	H-P	NPN	Low Noise
HP41410	H-P	NPN	Low Noise
HP41411	H-P	NPN	Low Noise
HP41435	H-P	NPN	Low Noise
HP41470	H-P	NPN	Low Noise
HP41485	H-P	NPN	Low Noise
HP41486	H-P	NPN	Low Noise
HP42000	H-P	NPN	Med Power
HP42010	H-P	NPN	Med Power
HP42035	H-P	NPN	Med Power
HP42070	H-P	NPN	Med Power
HP42085	H-P	NPN	Med Power
HP42086	H-P	NPN	Med Power
HP60100	H-P	NPN	Low Noise
HP60111	H-P	NPN	Low Noise
HP60200	H-P	NPN	Low Noise
HP60211	H-P	NPN	Low Noise
HP60500	H-P	NPN	Low Noise
HP60510	H-P	NPN	Low Noise
HP60535	H-P	NPN	Low Noise
HP60570	H-P	NPN	Low Noise
HP60585	H-P	NPN	Low Noise
HP60586	H-P	NPN	Low Noise
HP64000	H-P	NPN	Linear Power
HP64020	H-P	NPN	Linear Power
HP64023	H-P	NPN	Linear Power
HXTR3102	H-P	NPN	15V 30mA
HXTR5104	H-P	NPN	18V 110mA
LT1001	Mot	NPN	8V 50mA
MFR406	Mot	NPN	Class C
MM4049	Mot	PNP	10V 10mA
MMBR536	Mot	PNP	10V 10mA
MMBR571	Mot	NPN	5V 50mA
MMBR911	Mot	NPN	10V 20mA
MMBR941	Mot	NPN	6V 15mA
MMBR951	Mot	NPN	6V 30mA
MRF2369	Mot	NPN	10V 10mA
MRF3866	Mot	NPN	15V 50mA, Class C
MRF450	Mot	NPN	Class C
MRF492	Mot	NPN	Class C
MRF521	Mot	PNP	8V 50mA
MRF5211	Mot	PNP	8V 50mA
MRF536	Mot	PNP	10V 10mA
MRF544	Mot	NPN	10V 25mA/25V 100mA
MRF545	Mot	NPN	10V 25mA/25V 100mA
MRF559	Mot	NPN	10V 50mA
MRF571	Mot	NPN	8V 50mA
MRF5711	Mot	NPN	8V 80mA
MRF581	Mot	NPN	10V 100mA
MRF5812	Mot	NPN	10V 50mA
MRF873	Mot	NPN	15W 870MegHz
MRF901	Mot	NPN	5V 5mA
MRF911	Mot	NPN	10V 10mA
MRF914	Mot	NPN	10V 10mA
MRF9331	Mot	NPN	5V 1mA
MRF941	Mot	NPN	6V 15mA
MRF9411	Mot	NPN	6V 15mA
MRF951	Mot	NPN	6V 30mA
MRF9511	Mot	NPN	6V 30mA
MRF961	Mot	NPN	10V 25mA
MRF962	Mot	NPN	10V 25mA
MRF965	Mot	NPN	10V 25mA
NE21935	NEC	NPN	8V 5mA
NE22120	NEC	NPN	15V 100mA
NE32700	NEC	NPN	
NE46100	NEC	NPN	
NE46314	NEC	NPN	5V 50mA

NE59335	NEC	PNP	
NE64700	NEC	NPN	8V 10mA
NE68100	NEC	NPN	8V 7mA
NE74000	NEC	NPN	
NE85633	NEC	NPN	10V 7mA/10V 30mA
NE901	NEC	PNP	
TRW52001	TRW	NPN	20V 220mA

MMICS (56)

Part #	Mfr.	Description
MSA0100	H-P	Gen Purpose
MSA0104	H-P	Gen Purpose
MSA0135	H-P	Gen Purpose
MSA0170	H-P	Gen Purpose
MSA0185	H-P	Gen Purpose
MSA0186	H-P	Gen Purpose
MSA0200	H-P	Gen Purpose
MSA0204	H-P	Gen Purpose
MSA0235	H-P	Gen Purpose
MSA0270	H-P	Gen Purpose
MSA0285	H-P	Gen Purpose
MSA0286	H-P	Gen Purpose
MSA0300	H-P	Gen Purpose
MSA0304	H-P	Gen Purpose
MSA0311	H-P	Gen Purpose
MSA0335	H-P	Gen Purpose
MSA0370	H-P	Gen Purpose
MSA0385	H-P	Gen Purpose
MSA0386	H-P	Gen Purpose
MSA0400	H-P	Med Power
MSA0404	H-P	Med Power
MSA0420	H-P	Med Power
MSA0435	H-P	Med Power
MSA0470	H-P	Med Power
MSA0485	H-P	Med Power
MSA0486	H-P	Med Power
MSA0500	H-P	Med Power
MSA0504	H-P	Med Power
MSA0505	H-P	Med Power
MSA0520	H-P	Med Power
MSA0600	H-P	Low Noise
MSA0611	H-P	Low Noise
MSA0635	H-P	Low Noise
MSA0670	H-P	Low Noise
MSA0685	H-P	Low Noise
MSA0686	H-P	Low Noise
MSA0700	H-P	Low Noise
MSA0711	H-P	Low Noise
MSA0735	H-P	Low Noise
MSA0770	H-P	Low Noise
MSA0785	H-P	Low Noise
MSA0786	H-P	Low Noise
MSA0800	H-P	Low Noise
MSA0835	H-P	Low Noise
MSA0870	H-P	Low Noise
MSA0885	H-P	Low Noise
MSA0886	H-P	Low Noise
MSA0900	H-P	High Frequency
MSA0910	H-P	High Frequency
MSA0986	H-P	High Frequency
MSA1000	H-P	Med Power
MSA1100	H-P	High Dyn
MSA1104	H-P	High Dyn
MSA1105	H-P	High Dyn
MSA1110	H-P	High Dyn
MSA1120	H-P	High Dyn

GaAs MESFETS [27]

Part #	Mfr.	Description
ATF10100	H-P	Low Noise/Linear
ATF10170	H-P	Low Noise/Linear
ATF10700	H-P	Low Noise/Linear
ATF13100	H-P	Low Noise/Linear
ATF13300	H-P	Low Noise/Linear
ATF13700	H-P	Low Noise/Linear
ATF21100	H-P	Gen Purp/Linear
ATF21170	H-P	3V 20mA; Nonlinear
ATF25100	H-P	Low Noise/Linear
ATF25170	H-P	Low Noise/Linear
ATF26100	H-P	Gen. Purp./Linear
ATF26150	H-P	Gen. Purp./Linear
ATF35076	H-P	Low Noise/Linear
ATF35X00	H-P	Low Noise/Linear
ATF44100	H-P	Med Power/Linear
ATF44101	H-P	Med Power/Linear
ATF45100	H-P	Med Power/Linear
ATF45101	H-P	Med Power/Linear
ATF45171	H-P	Med Power/Linear
ATF46100	H-P	Med Power/Linear
ATF46101	H-P	Med Power/Linear
ATF46171	H-P	Med Power/Linear
CFY19	Siem	3.5V 30mA; Nonlinear
CFY30	Siem	3.5V 15mA; Nonlinear
NE71000	NEC	3V 30mA; Nonlinear
NE76000	NEC	3V 10mA; Nonlinear
NEC985	NEC	3V 30mA; Nonlinear

PIN Diodes [6]

Part #	Mfr.
1N5719	H-P
1N5767	Alpha
BAR17	Siemens
HP3810	H-P
ND6271-5E	NEC
UM4000	Uni

Couplers [1]

COUPLER Ideal: AC and Transient

FETS (2)

Part #	Mfr.	Type	Bias
2N4416	Mot	NJFET	15V 10MA
MRF136	Mot	Pwr Mos	28V 500MA

RF Beads (14)

Part #	Mfr.	Description
2943777741	Fair-Rite	Wound Bead
2943666651	Fair-Rite	Wound Bead
2943666661	Fair-Rite	Wound Bead
2943666671	Fair-Rite	Wound Bead
2743001112	Fair-Rite	Bead On A Lead
2743003112	Fair-Rite	Bead On A Lead
2743004112	Fair-Rite	Bead On A Lead
2743005112	Fair-Rite	Bead On A Lead
2743007112	Fair-Rite	Bead On A Lead
2743008112	Fair-Rite	Bead On A Lead
2743009112	Fair-Rite	Bead On A Lead
2743015112	Fair-Rite	Bead On A Lead
2743019447	Fair-Rite	Surface Mount
2743021447	Fair-Rite	Surface Mount

Standard Electronic Devices - JFETS

(# of JFETS - 161)

All of Intusoft's models are thoroughly tested before being released. Models are never released unless all critical parameters are inserted in the model, even hard to calculate parameters. The JFET DC, switching, and noise characteristics have all been verified through simulation.

JFETS [129]

(N-Channel)

Part #	Mfr.	Desc.	Specs.				
J105	Sili	Analog Switch	25V 50mA	BFR31	Phil	Gen Purp	25V 5mA
J106	Sili	Analog Switch	25V 50mA	BF245A	Phil	Amplifier	30V 10mA
J107	Sili	Analog Switch	25V 50mA	BF245B	Phil	Amplifier	30V 10mA
J108	Sili	Analog Switch	25V 50mA	BF245C	Phil	Amplifier	30V 10mA
J109	Sili	Analog Switch	25V 50mA	BF246A	Phil	Analog Switch	45V 65mA
J110	Sili	Analog Switch	25V 10mA	BF247A	Phil	VHF/UHF	25V 10mA
J110A	Sili	Analog Switch	25V 50mA	BF247B	Phil	VHF/UHF	25V 10mA
J111	Phil	Analog Switch	40V 20mA	BF247C	Phil	VHF/UHF	25V 10mA
J112	Phil	Analog Switch	40V 5mA	BF256A	Phil	VHF/UHF	30V 10mA
J113	Phil	Analog Switch	40V 2mA	BF256B	Phil	VHF/UHF	30V 10mA
J201	Sili	Gen Purp	40V 50mA	BF410A	Phil	VHF/UHF	20V 10mA
J202	Sili	Gen Purp	40V 50mA	BF410B	Phil	VHF/UHF	20V 30mA
J203	Sili	Gen Purp	40V 50mA	BF410C	Phil	VHF/UHF	20V 30mA
J204	Sili	VHF/UHF	40V 50mA	BF410D	Phil	VHF/UHF	20V 30mA
J210	Phil	Gen Purp	25V 15mA	BF510	Phil	VHF/UHF	20V 10mA
J211	Phil	Gen Purp	25V 20mA	BF511	Phil	VHF/UHF	20V 10mA
J212	Phil	Gen Purp	25V 40mA	BF512	Phil	VHF/UHF	20V 10mA
J308	Sili	VHF/UHF	25V 10mA	BF513	Phil	VHF/UHF	20V 10mA
J308P	Phil	VHF/UHF	25V 10mA	BF545A	Phil		
J309	Sili	VHF/UHF	25V 10mA	BF545B	Phil		
J309P	Phil	VHF/UHF	25V 10mA	BF545C	Phil		
J310	Sili	VHF/UHF	25V 10mA	BFQ10	Phil	Diff Amp	20V 10mA
J310P	Phil	VHF/UHF	25V 10mA	BFT46	Phil	Amplifier	25V 10mA
2N3823	Mot	VHF/UHF	30V 10mA	BFU308	Phil	VHF/UHF	25V 10mA
2N4091	Sili	Analog Switch	40V 10mA	BFU309	Phil	VHF/UHF	25V 10mA
2N4092	Sili	Analog Switch	40V 10mA	BFU310	Phil	VHF/UHF	25V 10mA
2N4093	Sili	Analog Switch	40V 10mA	BFW10	Phil	Low Noise	30V 20mA
2N4119	Sili	Amplifier	40V 50mA	BFW11	Phil	Low Noise	30V 10mA
2N4119A	Sili	Amplifier	40V 50mA	BFW12	Phil	Low Power	30V 5mA
2N4220	Sili	Gen Purp.	30V 10mA	BFW13	Phil	Low Power	30V 1.5mA
2N4221	Sili	Gen Purp.	30V 10mA	BFW61	Phil	Amplifier	25V 20mA
2N4222	Sili	Gen Purp.	30V 10mA	BSJ108	Phil	Analog Switch	25V 50mA
2N4391	Sili	Analog Switch	40V 50mA	BSJ109	Phil	Analog Switch	25V 50mA
2N4392	Sili	Analog Switch	40V 50mA	BSJ110	Phil	Analog Switch	25V 10mA
2N4393	Sili	Analog Switch	40V 50mA	BSR56	Phil	Analog Switch	40V 50mA
2N4416	Sili	VHF/UHF	30V 10mA	BSR57	Phil	Analog Switch	40V 20mA
2N4416A	Phil	VHF/UHF	30V 10mA	BSR58	Phil	Analog Switch	40V 8mA
2N4856	Sili	Analog Switch	40V 50mA	BSV78	Phil	Analog Switch	40V 50mA
2N4857	Sili	Analog Switch	40V 50mA	BSV79	Phil	Analog Switch	40V 20mA
2N4858	Sili	Analog Switch	40V 50mA	BSV80	Phil	Analog Switch	40V 10mA
2N4859	Sili	Analog Switch	30V 50mA	M5911	Sili	Diff Amp.	25V 50mA
2N4860	Sili	Analog Switch	30V 50mA	MMBF5459	Mot	Gen Purp	25V 10mA
2N4861	Sili	Analog Switch	30V 50mA	PMB4416A	Phil	VHF/UHF	30V 10mA
2N5197	Sili	Diff Amp	50V 50mA	PMBF4391	Phil	Analog Switch	40V 50mA
2N5457	Mot	Gen Purp	25V 10mA	PMBF4392	Phil	Analog Switch	40V 50mA
2N5458	Mot	Gen Purp	25V 10mA	PMBF4393	Phil	Analog Switch	40V 50mA
2N5459	Mot	Gen Purp	25V 10mA	PMBF4416	Phil	VHF/UHF	30V 10mA
2N5484	Sili	VHF/UHF	25V 10mA	PMBFJ108	Phil	Analog Switch	25V 50mA
2N5515	Mot	Diff Amp	40V 10mA	PMBFJ109	Phil	Analog Switch	25V 50mA
BC264A	Phil	Audio	30V 12mA	PMBFJ110	Phil	Analog Switch	25V 10mA
BC264B	Phil	Audio	30V 12mA	PMBFJ111	Phil	Analog Switch	40V 20mA
BC264C	Phil	Audio	30V 12mA	PMBFJ112	Phil	Analog Switch	40V 5mA
BC264D	Phil	Audio	30V 12mA	PMBFJ113	Phil	Analog Switch	40V 2mA
BFR30	Phil	Gen Purp	25V 5mA	PMBFJ210	Phil	Gen Purp	25V 15mA

Legend

Mot - Motorola
Sili - Siliconix
Phil - Philips
Siem - Siemens

Specs. - Max. Gate-Drain
Voltage and Max. Gate
Current

JFETS (N-Channel)

Part #	Mfr.	Desc.	Specs.
PMBFJ211	Phil	Gen Purp	25V 20mA
PMBFJ212	Phil	Gen Purp	25V 40mA
PMBFJ308	Phil	VHF/UHF	25V 10mA
PMBFJ309	Phil	VHF/UHF	25V 10mA
PMBFJ310	Phil	VHF/UHF	25V 10mA
PN4391	Phil	Analog Switch	40V 50mA
PN4392	Phil	Analog Switch	40V 50mA
PN4393	Phil	Analog Switch	40V 50mA
PZFJ108	Phil	Analog Switch	25V 50mA
PZFJ109	Phil	Analog Switch	25V 50mA
PZFJ110	Phil	Analog Switch	25V 50mA
U401	Sili	Gen Purp	50V 10mA
U421	Sili	Diff Amp	40V 10mA
U430	Sili	Diff Amp	25V 10mA

JFETS [32] (P-Channel)

Part #	Mfr.	Desc.	Specs.
2N3330	Mot	Amplifier	20V 10mA
2N3331	Mot	Amplifier	20V 10mA
2N3909	Mot	Amplifier	20V 10mA
2N3909A	Mot	Amplifier	20V 10mA
2N3993	Mot	Analog Switch	25V 10mA
2N3993A	Mot	Analog Switch	25V 10mA
2N3994	Mot	Analog Switch	25V 10mA
2N5460	Sili	Gen. Purp.	40V 10mA
2N5461	Sili	Gen. Purp.	40V 10mA
2N5463	Sili	Gen. Purp.	60V 10mA
2N5464	Sili	Gen. Purp.	60V 10mA
2SJ72	Tosh	Gen. Purpose	25 V 30mA
2SJ74	Tosh	Gen. Purpose	25 V 20mA
2SJ103	Tosh	Gen. Purpose	50 V 20mA
2SJ104	Tosh	Gen. Purpose	25 V 20mA
2SJ105	Tosh	Gen. Purpose	50 V 14mA
2SJ106	Tosh	Gen. Purpose	50 V 14mA
2SJ107	Tosh	Gen. Purpose	25 V 20mA
2SJ108	Tosh	Gen. Purpose	25 V 20mA
2SJ109	Tosh	Gen. Purpose	30V 20mA
BSJ174	Phil	Analog Switch	30V 50mA
BSJ175	Phil	Analog Switch	30V 50mA
BSJ176	Phil	Analog Switch	30V 50mA
BSJ177	Phil	Analog Switch	30V 50mA
J174	Sili	Analog Switch	30V 50mA
J175	Sili	Analog Switch	30V 50mA
J176	Sili	Analog Switch	30V 50mA
J177	Sili	Analog Switch	30V 50mA
PMBFJ174	Phil	Analog Switch	30V 50mA
PMBFJ175	Phil	Analog Switch	30V 50mA
PMBFJ176	Phil	Analog Switch	30V 50mA
PMBFJ177	Phil	Analog Switch	30V 50mA

Standard Electronic Devices - MOSFETS

(# of MOSFETS - 397)

Small Signal MOSFETS [38] (N-Channel)

Part #	Mfr.	Desc.	Specs.
2N7000	Mot	Gen. Purp.	60V 5Ω .2A
3N128	Mot	Amplifier	20V .05A
3N155	Mot	Switching	35V 400Ω .03A
3N156	Mot	Switching	35V 400Ω .03A
3N157	Mot	Switching	35V .03A
3N158	Mot	Switching	35V .03A
3N7104	Sili		30V 58Ω 50mA
3N7106	Sili		10V 58Ω 50mA
3N7108	Sili		20V 58Ω 50mA
3N7105	Sili		30V 58Ω 50mA
3N7107	Sili		10V 58Ω 50mA
3N7109	Sili		20V 58Ω 50mA
3N7116	Sili		20V 60Ω 50mA
3N7117	Sili		10V 60Ω 50mA
3N7118	Sili		15V 60Ω 50mA
BS107	Mot	Switching	200V 28Ω .12A
BS107A	Mot	Switching	200V 6Ω .25A
MPF990	Mot	Switching	90V 4Ω 2A
SD210DE	Sili	Switching	30V 40Ω 50mA
SD211DE	Sili	Switching	30V 45Ω 50mA
SD212DE	Sili	Switching	10V 40Ω 50mA
SD213DE	Sili	Switching	10V 45Ω 50mA
SD214DE	Sili	Switching	20V 40Ω 50mA
SD215DE	Sili	Switching	20V 45Ω 50mA
SST211	Sili	Switching	10V 50Ω .05A
SST215	Sili	Switching	20V 50Ω .05A
VN0300B	Sili	Gen. Purp.	30V 1.2Ω 1.51A
VN0300L	Sili	Gen. Purp.	30V 1.2Ω .64A
VN0300M	Sili	Gen. Purp.	30V 1.2Ω .67A
VN0603T	Sili	Gen. Purp.	60V 3.5Ω .22A
VN0603L	Sili	Gen. Purp.	60V 35Ω .3A
VN0605T	Sili	Gen. Purp.	60V 5Ω .18A
VN0610L	Sili	Gen. Purp.	60V 5Ω .27A
VN0610LL	Sili	Gen. Purp.	60V 5Ω .28A
VN10LE	Sili	Gen. Purp.	60V 5Ω .38A
VN10LM	Sili	Gen. Purp.	60V 5Ω .32A
VN10KE	Sili	Gen. Purp.	60V 5Ω .17A
VN10KM	Sili	Gen. Purp.	60V 5Ω 0.31A

Small Signal MOSFETS [5] (P-Channel)

BS208	Sili	Gen. Purp.	200V 14Ω 0.2A
BS250	Sili	Gen. Purp.	45V 14Ω 0.18A
VP0610E	Sili	Gen. Purp.	60V 10Ω -.25A
VP0610L	Sili	Gen. Purp.	60V 10Ω -.18A
VP0610T	Sili	Gen. Purp.	60V 10Ω -.12A

Dual-Gate MOSFETS [14]

Part #	Mfr.	Desc.	Specs.
BF980A	Phil	UHF	18V 30mA
BF981	Phil	VHF	20V 20mA
BF990A	Phil	UHF	18V 30mA
BF992	Phil	VHF	20V 40mA
BF993	Siem	VHF	20V 50mA
BF996S	Siem	UHF	20V 30mA
BF998	Siem	UHF	20V 30mA
BFR84	Phil	VHF	20V 50mA
MFE130	Siem	VHF	35V 30mA

Legend

Sili - Siliconix
Siem - Siemens
APT - Advanced Power Technology
I.R. - International Rectifier
Power - Powerex
SGS - SGS-Thomson
Specs. - Min. Drain-Source Voltage,
rDS(on), and Max. Drain Current

3N201	Mot	VHF	25V 50mA
3N203	Mot	VHF	25V 50mA
MPF201	Mot	VHF	25V 50mA
MPF203	Mot	VHF	25V 50mA
MPF521		Enhancement	25V 50mA

Power MOSFETS [332] (N-Channel)

Part #	Mfr.	Specs.
2N6660	Mot	60V 3.0Ω 2A
2N6661	Mot	90V 4.0Ω 2A
2N6759	Harris	350V 1.5Ω 4.5A
2N6760	Harris	400V 1.0Ω 5.5A
2N6763	Harris	60V 0.08Ω 31A
2N6764	Harris	100V 0.055Ω 38A
2N6765	Harris	150V 0.12Ω 25A
2N6766	Harris	200V .085Ω 30A
2N6769	Harris	450V 0.5Ω 20A
2N6770	Harris	500V 0.4Ω 20A
2N6790	Harris	200V 0.8Ω 3.5A
2N7000Z2	Zetex	
2N7002Z	Zetex	
2N7291	Harris	
2N7292	Harris	
2N7295	Harris	
2SK10582	Hitachi	160V 7A
2SK1352	Hitachi	160V 7A
APT5540	APT	550V 0.4Ω 15.5A
APT5545	APT	550V 0.45Ω 14.5A
APT6040	APT	600V 0.4Ω 15.5A
APT6045	APT	550V 0.3Ω 14.5A
BS170	Mot	60V 5Ω .5A
BS170Z2	Zetex	60V 5Ω .5A
BUZ11	Harris	50V 0.04Ω 30A
BUZ41A	Harris	500V 1.5Ω 4.5A
BUZ45	Harris	500V 0.6Ω 9.6A
BUZ45A	Harris	500V 0.8Ω 8.3A
BUZ45B	Harris	500V 0.5Ω 10A
FRK150	Harris	Power
FRK250	Harris	Power
FRK254	Harris	Power
FRL130	Harris	Power
FRL230	Harris	Power
IRF130	Harris	Power
IRF140	Harris	100V 0.085Ω 27A
IRF141	Harris	60V 0.085Ω 27A
IRF142	Harris	100V 0.11Ω 24A
IRF143	Harris	60V 0.11Ω 24A
IRF150	I.R.	100V .055Ω 28A
IRF151	I.R.	60V .05Ω 28A
IRF152	I.R.	100V .08Ω 24A
IRF153	I.R.	60V .08Ω 24A

IRF220	I.R.	200V 0.8Ω 4.0A	IRF633	I.R.	150V 0.6Ω 5.0A
IRF221	I.R.	150V 0.8Ω 4.0A	IRF710	Harris	400V 3.6Ω 1.5A
IRF222	I.R.	200V 1.2Ω 3.5A	IRF711	Harris	350V 3.6Ω 1.5A
IRF223	I.R.	150V 1.2Ω 3.5A	IRF712	Harris	400V 35.0Ω 1.3A
IRF230	I.R.	200V 0.4Ω 7.0A	IRF713	Harris	350V 35.0Ω 1.3A
IRF231	I.R.	150V 0.4Ω 7.0A	IRF720	I.R.	400V 1.8Ω 2.5A
IRF232	I.R.	200V 0.6Ω 6.0A	IRF721	I.R.	350V 1.8Ω 2.5A
IRF233	I.R.	150V 0.6Ω 6.0A	IRF722	I.R.	400V 2.5Ω 2.0A
IRF240	Harris	200V 0.18Ω 18A	IRF723	I.R.	350V 2.5Ω 2.0A
IRF241	Harris	150V 0.18Ω 18A	IRF730	I.R.	400V 1.0Ω 3.5A
IRF242	Harris	200V 0.22Ω 16A	IRF731	I.R.	350V 1.0Ω 3.5A
IRF243	Harris	150V 0.22Ω 16A	IRF732	I.R.	400V 1.5Ω 3.0A
IRF244	Harris	250V 0.28Ω 14A	IRF733	I.R.	350V 1.5Ω 3.0A
IRF245	Harris	250V 0.34Ω 13A	IRF740	Mot	400V 0.55Ω 10.0A
IRF246	Harris	275V 0.28Ω 14A	IRF741	Mot	350V 0.55Ω 10A
IRF247	Harris	275V 0.34Ω 13A	IRF820	I.R.	500V 3.0Ω 1.5A
IRF250	I.R.	200V 0.085Ω 20A	IRF821	I.R.	450V 3.0Ω 1.5A
IRF251	I.R.	150V 0.085Ω 20.A	IRF822	I.R.	500V 4.0Ω 1.0A
IRF252	I.R.	200V 0.12Ω 17.0A	IRF823	I.R.	450V 4.0Ω 1.0A
IRF253	I.R.	150V 0.12Ω 17.0A	IRF830	I.R.	500V 1.5Ω 3.0A
IRF320	I.R.	400V 1.8Ω 2.5A	IRF831	I.R.	450V 1.5Ω 3.0A
IRF321	I.R.	350V 1.8Ω 2.5A	IRF832	I.R.	500V 2.0Ω 2.5A
IRF322	I.R.	400V 2.5Ω 2.0A	IRF833	I.R.	450V 2.0Ω 2.5A
IRF323	I.R.	350V 2.5Ω 2.0A	IRF8402	Harris	500V 8A 0.8Ω
IRF330	I.R.	400V 1.0Ω 4.0A	IRF8412	Harris	450V 8A 0.8Ω
IRF331	I.R.	350V 1.0Ω 4.0A	IRF8422	Harris	500V 7A 0.8Ω
IRF332	I.R.	400V 1.5Ω 3.5A	IRF8432	Harris	450V 7A 0.8Ω
IRF333	I.R.	350V 1.5Ω 3.5A	IRFAG20	I.R.	1000V 8.5Ω 1.3A
IRF340	Harris	400V 0.55Ω 10A	IRFAG22	I.R.	1000V 11.5Ω 1.2A
IRF341	Harris	350V 0.55Ω 10A	IRFD220	Harris	200V 0.8Ω 0.8A
IRF342	Harris	400V 0.8Ω 8A	IRFD221	Harris	150V 0.8Ω 0.8A
IRF343	Harris	350V 0.8Ω 8A	IRFD222	Harris	200V 1.2Ω 0.7A
IRF350	I.R.	400V 0.3Ω 11.0A	IRFD223	Harris	150V 1.2Ω 0.7A
IRF351	I.R.	350V 0.3Ω 11.0A	IRFF110	Harris	100V 0.6Ω 3.5A
IRF352	I.R.	400V 0.4Ω 10.0A	IRFF111	Harris	60V 0.6Ω 3.5A
IRF353	I.R.	350V 0.4Ω 10.0A	IRFF112	Harris	100V 0.8Ω 3.0A
IRF420	I.R.	500V 3.0Ω 2.0A	IRFF113	Harris	60V 0.8Ω 3.0A
IRF421	I.R.	450V 3.0Ω 2.0A	IRFF210	Harris	200V 1.0Ω 2.2A
IRF422	I.R.	400V 4.0Ω 1.5A	IRFF211	Harris	150V 1.0Ω 2.2A
IRF423	I.R.	350V 4.0Ω 1.5A	IRFF212	Harris	200V 1.5Ω 1.8A
IRF430	I.R.	500V 1.5Ω 3.5A	IRFF213	Harris	150V 1.5Ω 1.8A
IRF431	I.R.	450V 1.5Ω 3.5A	IRFF2202	Harris	200V 3.5A 0.8Ω
IRF432	I.R.	500V 2.0Ω 3.0A	IRFF2212	Harris	150V 3.5A 0.8Ω
IRF433	I.R.	450V 1.5Ω 3.0A	IRFF2222	Harris	200V 3.0A 1.2Ω
IRF440	Harris	500V 0.85Ω 8.0A	IRFF2232	Harris	150V 3.0A 1.2Ω
IRF441	Harris	450V 0.85Ω 8.0A	IRFF2302	Harris	200V 5.5A 0.4Ω
IRF442	Harris	500V 1.1Ω 7.0A	IRFF2312	Harris	150V 5.5A 0.4Ω
IRF443	Harris	450V 1.1Ω 7.0A	IRFF2322	Harris	200V 4.5A 0.6Ω
IRF450	I.R.	500V 0.4Ω 10.0A	IRFF2332	Harris	150V 4.5A 0.6Ω
IRF451	I.R.	450V 0.4Ω 10.0A	IRFF3102	Harris	400V 1.35A 3.6Ω
IRF452	I.R.	500V 0.5Ω 8.0A	IRFF3112	Harris	350V 1.35A 3.6Ω
IRF453	I.R.	450V 0.5Ω 8.0A	IRFF3122	Harris	400V 1.15A 5.0Ω
IRF510	I.R.	100V 0.6Ω 3.0A	IRFF3132	Harris	350V 1.15A 5.0Ω
IRF511	I.R.	60V 0.6Ω 3.0A	IRFF3202	Harris	400V 2.5A 1.8Ω
IRF512	I.R.	100V 0.8Ω 2.5A	IRFF3212	Harris	350V 2.5A 1.8Ω
IRF513	I.R.	60V 0.8Ω 2.5A	IRFF3222	Harris	400V 2.0A 2.5Ω
IRF520	I.R.	100V 0.3Ω 5.0A	IRFF3232	Harris	350V 2.0A 2.5Ω
IRF521	I.R.	60V 0.3Ω 5.0A	IRFF3302	Harris	400V 3.5A 1.0Ω
IRF522	I.R.	100V 0.4Ω 4.0A	IRFF3312	Harris	350V 3.5A 1.0Ω
IRF523	I.R.	60V 0.4Ω 4.0A	IRFF3322	Harris	400V 3.0A 1.5Ω
IRF530	I.R.	100V 0.18Ω 10.0A	IRFF3332	Harris	250V 3.0A 1.5Ω
IRF531	I.R.	60V 0.18Ω 10.0A	IRFF4202	Harris	500V 1.6A 3.0Ω
IRF532	I.R.	100V 0.25Ω 8.0A	IRFF4212	Harris	450V 1.6A 3.0Ω
IRF533	I.R.	60V 0.25Ω 8.0A	IRFF4222	Harris	500V 1.4A 4.0Ω
IRF610	I.R.	200V 1.5Ω 2.0A	IRFF4232	Harris	450V 1.4A 4.0Ω
IRF611	I.R.	150V 1.5Ω 2.0A	IRFF4302	Harris	500V 2.75A 1.5Ω
IRF612	I.R.	200V 2.4Ω 1.5A	IRFF4312	Harris	450V 2.75A 1.5Ω
IRF613	I.R.	150V 2.4Ω 1.5A	IRFF4322	Harris	500V 2.25A 2.0Ω
IRF620	I.R.	200V 0.8Ω 3.5A	IRFF4332	Harris	450V 2.25A 2.0Ω
IRF621	I.R.	150V 0.8Ω 3.5A	IRFP1502	Harris	100V 40A 0.055Ω
IRF622	I.R.	200V 1.2Ω 3.0A	IRFP1512	Harris	60V 40A 0.055Ω
IRF623	I.R.	150V 1.2Ω 3.0A	IRFP1522	Harris	100V 34A 0.08Ω
IRF630	I.R.	200V 0.4Ω 6.0A	IRFP1532	Harris	60V 34A 0.08Ω
IRF631	I.R.	150V 0.4Ω 6.0A	IRFZ20	Mot	50V 0.1Ω 15A
IRF632	I.R.	200V 0.6Ω 5.0A	IRFZ22	Mot	50V 0.12Ω 14A

IXTH10N602	IXYS	600V 10A 0.55Ω
IXTH15N45A2	IXYS	450V 15A 0.4Ω
IXTH15N50A2	IXYS	500V 15A 0.4Ω
IXTH5N1002	IXYS	1000V 5A 2.4Ω
IXTH5N952	IXYS	950V 5A 2.4Ω
IXTH6N802	IXYS	800V 6A 1.8Ω
IXTH6N902	IXYS	900V 6A 1.8Ω
IXTP2N1002	IXYS	1000V 2A 7.0Ω
IXTP2N952	IXYS	950V 2A 7.0Ω
IXTP4N802	IXYS	800V 4A 3.0Ω
IXTP4N902	IXYS	900V 4A 3.0Ω
MPF6660	Mot	60V 3.0Ω 2A
MPF6661	Mot	90V 4.0Ω 2A
MTB15N06E2	Mot	60V 15A 0.12Ω
MTB20N202	Mot	200V 20A
MTB30N06EL2	Mot	60V 30A 0.05Ω
MTB50N06E2	Mot	60V 50A 0.025Ω
MTD1N402	Mot	400V 1A 5Ω
MTD2955E2	Mot	60V 12A 0.3Ω
MTD2N202	Mot	200V 2A 1.5Ω
MTD2N50E2	Mot	500V 2A
MTD3055E2	Mot	60V 8A 0.15Ω
MTD3N25E2	Mot	250V 3A
MTD5N05	Mot	50V 0.4Ω 5A
MTD5N06	Mot	60V 0.4Ω 5A
MTM15N40E2	Mot	400V 15A 0.3Ω
MTM3P252	Mot	250V 3A 4Ω
MTM40N202	Mot	200V 40A 0.08Ω
MTM55N102	Mot	100V 55A 0.04Ω
MTM5N35	Mot	350V 1.0Ω 5.0A
MTM5N40	Mot	400V 1.0Ω 5.0A
MTM60N062	Mot	60V 60A 0.028Ω
MTP10N10E2	Mot	100V 10A 0.25Ω
MTP10N152	Mot	150V 10A 0.3Ω
MTP10N252	Mot	250V 10A 0.45Ω
MTP10N40E2	Mot	400V 10A 0.55Ω
MTP12N05E2	Mot	50V 12A 0.12Ω
MTP12N10E2	Mot	100V 12A 0.18Ω
MTP12N202	Mot	200V 12A 0.35Ω
MTP15N05	Mot	50V 0.16Ω 15A
MTP15N05E2	Mot	50V 15A 0.1Ω
MTP15N05EL2	Mot	50V 15A 0.1Ω
MTP15N06	Mot	60V 0.16Ω 15A
MTP15N06E2	Mot	60V 15A 0.12Ω
MTP15N08EL2	Mot	80V 15A 0.135Ω
MTP15N152	Mot	150V 15A 0.25Ω
MTP29552	Mot	60V 12A 0.3Ω
MTP2N60E2	Mot	600V 2A 3.8Ω
MTP3055E2	Mot	60V 12A 0.15Ω
MTP3055EL2	Mot	60V 12A .18Ω
MTP30N06EL2	Mot	60V 30A 0.05Ω
MTP33N10E2	Mot	100V 33A 0.058Ω
MTP3N1002	Mot	1000V 3A 4Ω
MTP3N502	Mot	500V 3A 3.0Ω
MTP3N60E2	Mot	600V 3A 2.2Ω
MTP3N952	Mot	950V 3A 4Ω
MTP4N08E2	Mot	80V 4A 0.8Ω
MTP4N502	Mot	500V 4A 1.5Ω
MTP4N852	Mot	850V 4A 4Ω
MTP4N902	Mot	900V 4A 4Ω
MTP50N05E2	Mot	50V 50A 0.028Ω
MTP50N06E2	Mot	60V 50A 0.025Ω
MTP5N202	Mot	200V 4A 1.0Ω
MTP5N35	Mot	350V 1.0Ω 5.0A
MTP5N40	Mot	400V 1.0Ω 5.0A
MTP6N102	Mot	100V 6A 0.8Ω
MTP6N60E2	Mot	600V 6A 1.2Ω
MTP75N052	Mot	50V 75A 0.0095Ω
MTP7N202	Mot	200V 7A 0.7Ω
MTP8N452	Mot	450V 8A 0.8Ω
MTP8N502	Mot	500V 8A 0.8Ω
MTW14N50E2	Mot	500V 14A 0.4Ω
MTW20N50E2	Mot	500V 20A 0.27Ω
MTW32N20E2	Mot	200V 32A 0.085Ω
RFA100N05E	Harris	

RFD16N05L	Harris	
RFH75N05E	Harris	
RFL2N05	Harris	50V 0.75Ω 2A
RFL2N06	Harris	60V 0.75Ω 2A
RFL4N12	Harris	120V 0.4Ω 4A
RFL4N15	Harris	150V 0.4Ω 4A
RFM15N06	Harris	
RFP4N05	Harris	50V 0.6Ω 4A
RFP4N06	Harris	60V 0.6Ω 4A
RFP15N06	Harris	
RFP70N03	Harris	
RFP70N06	Harris	
RPL1N08LE	Harris	
SDF9N1002	Mot	1000V 9A 1.2Ω
SI4410N	Siii	30V 10A 13.5mΩ
SI6436N	Siii	30V 4.2A 50mΩ
SI6542N	Siii	20V 2.5A 100mΩ
SI6956N	Siii	20V 2.5A 100mΩ
SI9410N	Siii	30V 7A 30mΩ
SI9430N	Siii	20V 5.8A 50mΩ
SI9925N	Siii	20V 5A 50mΩ
SI9928N	Siii	20V 5A 50mΩ
SI9936N	Siii	30V 5A 50mΩ
SI9940N	Siii	30V 5.3A 50mΩ
SI9942N	Siii	20V 3A 125mΩ
SI9945N	Siii	60V 3.3A 250mΩ
SI9952N	Siii	25V 3.5A 100mΩ
SI9955N	Siii	50V 3A 130mΩ
SI9956N	Siii	20V 3.5A 100mΩ
SI9958N	Siii	20V 3.5A 100mΩ
SI9959N	Siii	50V 2A 300mΩ
SMP60N10	Siii	30V 60A 10mΩ
SUP75N08	Siii	60V 75A 8mΩ
SUP70N14	Siii	60V 70A 14mΩ
SUP60N18	Siii	60V 60A 18mΩ
TN0102N22	Supertex	20V 1.25A 1.8Ω
TN0102N32	Supertex	20V 0.8A 1.8Ω
TN0104N22	Supertex	40V 1.25A 1.8Ω
TN0104N32	Supertex	40V 0.8A 1.8Ω
TN0104N82	Supertex	40V 0.42A 2.0Ω
TN0602N22	Supertex	20V 2.5A .65Ω
TN0602N32	Supertex	20V 1A 0.6Ω
TN0604N22	Supertex	40V 2.5A .65Ω
TN0604N32	Supertex	40V 1A 0.6Ω
VN10LF2	Zetex	
VN3515L2	Supertex	350V .15A 11.1Ω
VN4012B2	Supertex	400V .18A 9.5Ω
VN4012L2	Supertex	400V .16A 9.25Ω
ZVN01242	Zetex	
ZVN21062	Zetex	
ZVN2106G2	Zetex	
ZVN33062	Zetex	
ZVN3306F2	Zetex	
ZVN41062	Zetex	
ZVN42102	Zetex	
ZVN43102	Zetex	

Power MOSFETS [40]

(P-Channel)

Part#	Mfr.	Specs.
2SJ1622	Hitachi	160V 7A
2SJ502	Hitachi	160V 7A
IRF91302	I.R.	100V 13A .25Ω
IRF91312	I.R.	60V 13A .25Ω
IRF91322	I.R.	100V 11A 0.3Ω
IRF91332	I.R.	60V 11A 0.3Ω
IRF9530	I.R.	100V 0.3Ω 7A
IRF9531	I.R.	60V 0.3Ω 7A
IRF9532	I.R.	100V 0.4Ω 6A
IRF9533	I.R.	60V 0.4Ω 6A
MTD4P05	Mot	50V 0.6Ω 4A
MTD4P06	Mot	60V 0.6Ω 4A

MTM12P102	Mot	100V 12A 0.3Ω
MTM2P45	Mot	450V 6Ω 2A
MTM2P50	Mot	500V 6Ω 2A
MTM8P082	Mot	80V 8A 0.4Ω
MTM8P102	Mot	100V 8A 0.4Ω
MTP12P062	Mot	60V 12A 0.3Ω
MTP12P102	Mot	100V 12A 0.3Ω
MTP2P45	Mot	450V 6Ω 2A
MTP2P50	Mot	500V 6Ω 2A
MTP3P252	Mot	250V 3A 4Ω
MTP5P252	Mot	250V 5A 3.0Ω
MTP7P062	Mot	60V 7A 0.6Ω
MTP8P082	Mot	80V 8A 0.4Ω
MTP8P102	Mot	100V 8A 0.4Ω
SI4435P	Sili	30V 8A 20mΩ
SI6433P	Sili	12V 3.5A 75mΩ
SI6447P	Sili	20V 3A 100mΩ
SI6542P	Sili	20V 1.7A 200mΩ
SI6953P	Sili	20V 1.7A 200mΩ
SI9400P	Sili	20V 2.5A 250mΩ
SI9405P	Sili	20V 4.3A 100mΩ
SI9407P	Sili	60V 3A 150mΩ
SI9434P	Sili	12V 6.4A 40mΩ
SI9434P	Sili	30V 5.1A 55mΩ
SI9928P	Sili	20V 3.4A 110mΩ
SI9933P	Sili	20V 3.4A 110mΩ
SI9948P	Sili	60V 2A 280mΩ
SI9950P	Sili	50V 2A 300mΩ
SI9952P	Sili	25V 2.3A 250mΩ
SI9953P	Sili	20V 2.3A 250mΩ
SI9958P	Sili	20V 3.5A 100mΩ
SUP65P20	Sili	60V 65A 20mΩ
TP0610P	Sili	60V .18A 10mΩ
ZVP21062	Zetex	
ZVP2106G2	Zetex	
ZVP33062	Zetex	

Power Electronic Devices

Intusoft specializes in modeling. Over the past ten years we have published many SPICE modeling firsts. Intusoft is still the only PC SPICE vendor with models for IGBTs!

SCRs [72]

Part #	Mfr.	Desc.	Specs. (VDRM,IT)
2N1595	Mot		50V 1.6A
2N1596	Mot		100V 1.6A
2N1597	Mot		200V 1.6A
2N1599	Mot		400V 1.6A
2N1843	Mot		50V 14A
2N1844	Mot		100V 14A
2N1846	Mot		200V 14A
2N1849	Mot		400V 14A
2N2322	Uni	High Per.	25V 1.6A
2N2323	Mot		50V 1.6A
2N2324	Mot		100V 1.6A
2N2326	Mot		200V 1.6A
2N2329	Mot		400V 1.6A
2N2574	Mot	Gen. Purp.	50V 25A
2N3027	Uni	High Per.	30V .5A
2N3870	Mot		100V 35A
2N3871	Mot		200V 35A
2N3872	Mot		400V 35A
2N3873	Mot		600V 35A
2N3884	Power	Phase Ctrl.	50V 175A
2N5060	Mot		30V .8A
2N5061	Mot		60V .8A
2N5062	Mot		100V .8A
2N5724	Uni	High Per.	60V 1.6A
2N6171	Mot		100V 35A
2N6172	Mot		200V 35A
2N6173	Mot		400V 35A
2N6174	Mot		600V 35A
2N6397	RCA	Switch	450V 12A
2N682	Mot		50V 25A
2N683	Mot		100V 25A
2N685	Mot		200V 25A
2N688	Mot		400V 25A
2N690	Mot		600V 25A
2N692	Mot		800V 25A
BTW38-600R	Phil	Power	600V 16A
BTW68-100	SGS		1000V 30A
BTW68-120	SGS		1200V 30A
BTW68-200	SGS		200V 30A
BTW68-400	SGS		400V 30A
BTW68-600	SGS		600V 30A
BTW68-800	SGS		800V 30A
C180A	Power	Phase Ctrl.	100V 150A
GA300	GE		60V 100A
GA301	GE		100V 100A
MCR22-2	Mot	Switch	50V 1.5A
MCR3896	Mot		100V 35A
MCR3897	Mot		200V 35A
MCR3898	Mot		400V 35A
MCR3899	Mot		600V 35A
MCR65-6	Mot		400V 55A
MCR703	Mot		100V 4A
S3701M	RCA	Pulse Drv.	600V 5A
S4013PH	TAG		1000V 40A
S4013VH	TAG		1200V 40A
S4060A	RCA	Switch	100V 10A

Legend

Mot - Motorola
 Sili - Siliconix
 Phil - Philips
 TI - Texas Instruments
 APT - Advanced Power Technology
 I.R. - International Rectifier
 Power - Powerex
 IXYS - IXYS
 H-P - Hewlett-Packard
 Uni - Unitrode
 Sem - Semikron

T76004	Power	Phase Ctrl.	400V 300A
TIC106A	TI		100V 3.2A
TIC106B	TI		200V 3.2A
TIC106C	TI		300V 3.2A
TIC106D	TI		400V 3.2A
TIC106E	TI		500V 3.2A
TIC106F	TI		50V 3.2A
TIC106M	TI		600V 3.2A
TN023RH02	West		200V 48A
TN023RH04	West		400V 48A
TN023RH06	West		600V 48A
TN023RH08	West		800V 48A
TN023RH10	West		1000V 48A
TN023RH12	West		1200V 48A
TN023RH15	West		1500V 48A

IGBTs [90]

Part #	Mfr.	Specs. (Vces, IC)
2N6975	Harris	400V 5A
2N6976	Harris	500V 5A
APT35G60BN	APT	600V 35A
APT50G60BN	APT	600V 50A
APT45G100BN	APT	1000V 45A
APT30G100BN	APT	100V 30A
APT40G100AN	APT	1000V 40A
APT90G200EFN	APT	900V 200A
APT100G200EFN	APT	1000V 200A
HGTP12N40C1D	Harris	400V 12A
HGTP10N40C1D	Harris	400V 17.5A
1MBI30L	Fuji	600V 30A
1MBI50L	Fuji	600V 50A
1MBI75L	Fuji	600V 75A
IGMBI10F	Fuji	600V 10A w/Diode
IGMBI10L	Fuji	600V 10A w/Diode
IGMBI10S	Fuji	600V 10A w/Diode
IGMBI15F	Fuji	600V 15A w/Diode
IGMBI15L	Fuji	600V 15A w/Diode
IGMBI20F	Fuji	600V 20A w/Diode
IGMBI20L	Fuji	600V 20A w/Diode
IGMBI30F	Fuji	600V 30A w/Diode
IGMBI30L	Fuji	600V 30A w/Diode
ID221KA2	Power	1000V 25A w/Diode
ID2212A2	Power	1200V 25A w/Diode
ID221K05	Power	1000V 50A w/Diode
ID221205	Power	1200V 50A w/Diode
ID2260A2	Power	600V 25A w/Diode
ID226005	Power	600V 50A w/Diode
IGT4D10	Harris	400V 18A

IGT4E10	Harris	500V 18A	
IGT4D11	Harris	400V 18A	
IGT4E11	Harris	500V 18A	
IGT6D10	Harris	400V 18A	
IGT6E10	Harris	500V 18A	
IGT6D11	Harris	400V 18A	
IGT6E11	Harris	500V 18A	
IGT6D20	Harris	400V 32A	
IGT6E20	Harris	500V 32A	
IGT6D21	Harris	400V 32A	
IGT6E21	Harris	500V 32A	
IGT8D20	Harris	400V 32A	
IGT8E20	Harris	500V 32A	
IGT8D21	Harris	400V 32A	
IGT8E21	Harris	500V 32A	
IGTH10N40	Harris	400V 10A	
IGTH10N50	Harris	500V 10A	
IGTH10N40D	Harris	400V 10A	w/Diode
IGTH10N50D	Harris	500V 10A	w/Diode
IGTH20N40	Harris	400V 20A	
IGTH20N50	Harris	500V 20A	
IGTH20N40D	Harris	400V 20A	
IGTH20N50D	Harris	500V 20A	w/Diode
IRGBC20F	I.R.	600V 16A	w/Diode
IRGBC20S	I.R.	600V 19A	
IRGBC20U	I.R.	600V 13A	
IRGBC30F	I.R.	600V 31A	
IRGBC30S	I.R.	600V 34A	
IRGBC30U	I.R.	600V 23A	
IRGBC40F	I.R.	600V 49A	
IRGBC40S	I.R.	600V 50A	
IRGBC40U	I.R.	600V 40A	
IRGPC50F	I.R.	600V 70A	
IRGPC50U	I.R.	600V 55A	
IS621K30	Power	1000V 300A	w/Diode
IS621220	Power	1200V 200A	w/Diode
IS621230	Power	1200V 300A	w/Diode
IS626030	Power	600V 300A	w/Diode
IS626040	Power	600V 400A	w/Diode
IXGH10N60	IXYS	600V 20A	
IXGH10N60A	IXYS	600V 20A	
IXGH20N60	IXYS	600V 40A	
IXGH20N60A	IXYS	600V 40A	
IXGH30N60	IXYS	600V 50A	
IXGH30N60A	IXYS	600V 50A	
IXGH40N60	IXYS	600V 75A	
IXGH40N60A	IXYS	600V 75A	
IXGM20N60	IXYS	600V 40A	
IXGM20N60A	IXYS	600V 40A	
IXGM30N60	IXYS	600V 50A	
IXGM30N60A	IXYS	600V 50A	
IXGM40N60	IXYS	600V 75A	
IXGM40N60A	IXYS	600V 75A	
MGM5N45	Mot	450V 5A	
MGM5N50	Mot	500V 5A	
MGM20N45	Mot	450V 20A	
MGM20N50	Mot	500V 20A	
SKM15GD100D	Sem	1000V 15A	w/Diode
SKM25GB	Sem	1000V 25A	w/Diode
SKM50GB	Sem	1000V 50A	w/Diode

UJTs, PUTs [8]

Part #	Mfr.	Specs. (Vmax, Power)
2N2646	Mot	35V 300mW
2N2647	Mot	35V 300mW
2N4851	Mot	35V 300mW
2N4870	Mot	35V 300mW
2N4871	Mot	35V 300mW
MU4894	TI	30V 360mW
2N6027	Mot	40V 300mW
2N6028	Mot	40V 300mW

Regulators[36]

Name	Description
PWM	PWM Switch
BOOSTAVG	Average Model, Boost Regulator
BUCKAVG	Average Model, Buck Regulator
FLYAVG	Average Model, Flyback Regulator
LATCHCMP	Latching Comparator
PWMBBSCD	Buck-Boost, Step-Up Continuous/ Discontinuous
PWMBBSD0	Buck-Boost, Step-Up Xfmr Discontinuous
PWMBBSD	Buck-Boost, Step-Up Xfmr Discontinuous
PWMBBSDX	Buck-Boost, Step-Up Xfmr Discontinuous
PWMBCK	Buck Step-Down Xfmr
PWMBCKCD	Buck Step-Up Xfmr Continuous/ Discontinuous
PWMBCKD0	Buck Step-Up Xfmr Discontinuous
PWMBCKD	Buck Step-Up Xfmr Discontinuous
PWMBCKDX	Buck Step-Up Xfmr Discontinuous
PWMBST	Boost Step-Up Xfmr
PWMBSTCD	Boost Step-Up Xfmr Continuous/ Discontinuous
PWMBSTD0	Boost Step-Up Xfmr Discontinuous
PWMBSTD	Boost Step-Up Xfmr Discontinuous
PWMBSTDx	Boost Step-Up Xfmr Discontinuous
PWMCCM	CC Mod w/ext Ramp Cont
PWMCCMD	CC Modulator w/external Ramp Discontinuous
PWMCCMX	CC Modulator w/external Ramp Continuous
PWMCCMY	CC Modulator w/external Ramp Continuous
PWMCCMZ1	CC Modulator w/external Ramp Continuous
PWMCCMZ	CC Modulator w/external Ramp Continuous
PWMXFM	PWM w/Transformer
RECTBR	Bridge Rectifier
SG1524	Voltage Regulator
SG1524A	Voltage Regulator, Error Amp +100UA
SG1524FF	w/Feed Forward, Error Amp +100UA
SG1525	Voltage Regulator
SG1525A	Voltage Regulator, Error Amp +100UA
SG1525FF	w/Feed Forward, Error Amp +100UA
SG1526	Voltage Regulator
SG1526A	Voltage Regulator, Error Amp +100UA
UC1846	Current Mode Controller

SBS and Diacs [2]

Part #	Description
MBS4991	Motorola silicon bilateral switch
DIAC	Generic DIAC Model

Power Electronic Devices - Magnetic Cores

The Intusoft nonlinear core model allows standard data sheet parameters to be used for SPICE model creation. Coupled with the ideal transformer model and other geometry related parasitics, virtually any transformer topology and core can be accurately modeled. Below are the listings for the currently available predefined cores types and materials.

Miniature Tape Wound Cores (33)

Magnetics Co.
Square Permalloy and
Orthonal Materials

Core #
80521
80550
80505
80512
80529
80544
80523
80530
80524
80531
80608
80609
80558
80581
80610
80611
80598
80516
80612
80588
80613
80606
80614
80615
80560
80539
80517
80616
80617
80600
80618
80619
80525

Magnetics Tape Wound Cores (27)

Magnetics Co.
Square Permalloy and
Orthonal Materials

Core #
5_056
5_000
5_002
5_011
5_061
5_004
5_076
5_106
5_007
5_029
5_168
5_032
5_030
5_026
5_038
5_035
5_017
5_031
5_425
5_001
5_103
5_128
5-022
5_042
5_100
5_112
5_426

Ferrite Pot Cores (11)

Ferrocube 3C8
Material

Core #
704 series
905 series
1107 series
1408 series
1811 series
2213 series
2616 series
3019 series
3622 series
4229 series
6659 series

Special Library - Power Supply Designer's Library

(# of Devices - 436)

Intusoft has introduced a new SPICE model library for power supply designers. It is the first SPICE library to contain a comprehensive set of switching level models for Pulse Width Modulation ICs. The new library represents a major breakthrough for SMPS designers. Previous models were based almost exclusively on state space average models which don't show many important nonlinear effects. The library does include a unique "unified" state space PWM model which works for AC, DC, and transient analyses in continuous and discontinuous modes. However, the switching level models give designers a capability they have never had before; the ability to plug in a model, representative of the actual IC, and simulate the transient switching performance accurately and realistically.

Power MOS Drivers [4]

Part # Mfr.

IR2110	I.R.
TC427	Teledyne
TC426	Teledyne
TC428	Teledyne

Nonlinear Magnetics [376]

Description

Magnetics	MPP 55 and 58 Series Cores
MPP	Generic 55xx series
MPP2	Generic 58xx series
MAGF	F material
MAGR	R material

PWM ICs [21]

(Switch Level with and without the output drivers modeled)

Part #	Mfr.	Desc.
CS322	Cherry	Hysteretic Current Mode
CS324	Cherry	Hysteretic Current Mode
LT1242	Linear	
LT1243	Linear	
LT1244	Linear	
LT1245	Linear	
SI9145	Siliconix	Low Voltage-High Speed
UC1842	Unitrode	Current Mode
UC1842A	Unitrode	Current Mode
UC1843	Unitrode	Current Mode
UC1843A	Unitrode	Current Mode
UC1844	Unitrode	Current Mode
UC1844A	Unitrode	Current Mode
UC1845	Unitrode	Current Mode
UC1845A	Unitrode	Current Mode
UC1524	Unitrode	Regulating PWM
UC1524A	Unitrode	Regulating PWM
UC1525A	Unitrode	Regulating PWM
UC1527A	Unitrode	Regulating PWM
UC1823	Unitrode	High Speed Voltage/Current
UC1825	Unitrode	High Speed Voltage/Current

PWM ICs [20]

(State Space)

Part #

UC1842S
UC1843S
UC1844S
UC1845S
UC1842AS
UC1843AS
UC1844AS
UC1845AS
LT1242S
LT1243S
LT1244S
LT1245S
FLYBACK
FORWARD

Other ICs [2]

Part # Mfr. Desc.

UC1637	Uni.	Motor controller
UC1854	Uni.	PFC IC

Transformers [5]

Name	Description
2CTXFMR	Dual Input, 2 Center-Tapped Outputs
3CTXFMR	Dual Input, 3 Center-Tapped Outputs
4CTXFMR	Dual Input, 4 Center-Tapped Outputs
5CTXFMR	Dual + Center Tapped Input, 4 Center-Tapped Outputs
ROYER	2 Center-Tapped Inputs, Single Output

Intusoft Op-Amp Models

The Intusoft op-amp models are the most accurate and versatile in the industry. Intusoft was the first company to introduce a custom model that greatly surpassed the accuracy of the outdated Boyle op-amp model still used by many CAE software vendors. Intusoft was also the first company to introduce a Transimpedance op-amp model for both nonlinear Transient and linear AC analyses. In addition to the generic op-amp models, ICAP/4 also contains the following models:

Bipolar and FET Op-Amps		Transimpedance Op-Amps		Other ICs	
AD711	OP07	AD9610	CLC220	AD620	Inst. Amp
AD820	OP19	AD9611	CLC221	AD734	Multiplier
AD844	LMC660AM	OP260	CLC231	INA120	Inst. Amp
AD845	OP27	EL2020	CLC300	REF10	Voltage Ref.
EL2020	OPA77	EL2022	CLC400		
HA-2540	OP97	CLC103	CLC401		
LF156	OP200	CLC200	CLC404		
LM324	OP215	CLC203	CLC500		
MC3403	OP400	CLC205	CLC501		
TLC272	UA709	CLC206	CLC505		
TLC27M2	UA741				

Vendor Supplied IC Models

In addition to the specific and generic op-amp models in ICAP/4, the following list of over 1400 IC models is available from Intusoft. These models were originally supplied by various hardware vendors. Intusoft has converted these models into true SPICE format (ASCII netlists) that can be used with any Berkeley SPICE compatible program including all versions of ISpICE. Schematic symbols are also provided. The model libraries are available individually or all together. They are included as part of the ICAPS Deluxe upgrade option.

ADVANCED LINEAR DEVICES [34]

ALD1701, ALD1702, ALD1703, ALD1704, ALD1706, ALD4701/PB, ALD4701/DB, ALD4701/SF, ALD2701/SB, ALD2701/PA, ALD2701/DA, ALD2701/SA, ALD1701/PA, ALD1701/DA, ALD1701/SA, ALD1702/DA, ALD1702/PA, ALD1702/SA, ALD1703/PA, ALD1703/SA, ALD1703/DA, ALD1704/DA, ALD1704/PA, ALD1704/SA, ALD4706/PB, ALD4706/DB, ALD4706/SF, ALD2706/DA, ALD2706/PA, ALD2706/SA, ALD2706/SB, ALD1706/DA, ALD1706/PA, ALD1706/SA

ANALOG DEVICES [447]

(Op-amps, Buffers, Matched Transistors, Multipliers, Voltage References, Analog Switches, and Instr Amps)
 AD581, AD581J, AD581K, AD581L, AD581S, AD581T, AD581U, AD584, AD584J, AD584K, AD584L, AD584S, AD584T, AD587, AD587J, AD587K, AD587L, AD587S, AD587T, AD587U, AD588, AD588A, AD588B, AD588J, AD588K, AD588S, AD588T, AD600, AD600J, AD602, AD602J, AD603, AD603A, AD620A, AD620B, AD620S, AD624, AD624A, AD624B, AD624C, AD624S, AD630, AD630A, AD630B, AD630J, AD630K, AD630S, AD633, AD633J, AD645, AD645A, AD645B, AD645J, AD645K, AD645S, AD680, AD680A, AD680J, AD680JT, AD704, AD704A, AD704B, AD704J, AD704K, AD704T, AD705, AD705A, AD705B, AD705J, AD705K, AD705T, AD706, AD706A, AD706B, AD706J, AD706K, AD706T, AD711A, AD711B, AD711C, AD711J, AD711K, AD711S, AD711T, AD712, AD712A, AD712B, AD712C, AD712J, AD712K, AD712S, AD712T, AD713, AD713A, AD713B, AD713J, AD713K, AD713S, AD713T, AD734A, AD734B, AD734S, AD743, AD743A, AD743B, AD743J, AD743K, AD743S, AD744, AD744A, AD744B, AD744C, AD744J, AD744K, AD744S, AD744T, AD745, AD745A, AD745B, AD745J, AD745K, AD745S, AD746, AD746A, AD746B, AD746J, AD746S, AD780, AD780A, AD780B, AD780S, AD795, AD795J, AD795K, AD797, AD797A, AD797B, AD797S, AD8001A, AD8001AN, AD8001AR, AD810, AD810A, AD810S, AD811, AD812, AD812A, AD813, AD813A, AD817, AD817A, AD818, AD818A, AD824, AD824A, AD824B, AD826, AD826A, AD828, AD828A, AD829, AD829A, AD829J, AD829S, AD830, AD830A, AD830J, AD830S, AD840, AD840J, AD840K,

AD840S, AD843, AD843A, AD843B, AD843J, AD843K, AD843S, AD844A, AD844B, AD844S, AD845A, AD845B, AD845J, AD845K, AD845S, AD846, AD846A, AD846B, AD846S, AD847, AD847A, AD847J, AD847S, AD848, AD848A, AD848J, AD848S, AD9617, AD9618, AD9621, AD9622, AD9623, AD9624, AD9630, ADG411, ADG411B, ADG411T, ADG412, ADG412B, ADG412T, ADG413, ADG413B, ADG413T, AMP-01, AMP-02, AMP04, AMP04E, AMP04F, BUF04, MAT-02, MAT-03, MAT-04, MLT04, MLT04G, OP08, OP113, OP113E, OP113F, OP160, OP160A, OP160F, OP160G, OP176, OP176G, OP177, OP177A, OP177B, OP177E, OP177F, OP177G, OP183G, OP191, OP191G, OP200A, OP200E, OP200F, OP200G, OP20, OP20B, OP20C, OP20F, OP20G, OP20H, OP21, OP21A, OP21E, OP21F, OP21G, OP21H, OP213F, OP215A, OP215B, OP215C, OP215E, OP215F, OP215G, OP21, OP21A, OP21E, OP21F, OP21G, OP21H, OP220, OP220A, OP220C, OP220E, OP220F, OP220G, OP221, OP221A, OP221B, OP221C, OP221E, OP221G, OP249, OP249A, OP249E, OP249F, OP249G, OP260, OP275, OP275G, OP279, OP279G, OP27, OP27A, OP27B, OP27C, OP27E, OP27F, OP27G, OP282, OP282G, OP283, OP283, OP283G, OP284, OP284E, OP284F, OP285, OP285G, OP290, OP290A, OP290E, OP290F, OP290G, OP291, OP291G, OP292, OP295, OP297, OP297A, OP297E, OP297F, OP297G, OP37, OP37A, OP37B, OP37C, OP37E, OP37F, OP37G, OP400A, OP400E, OP400F, OP400G, OP400H, OP413, OP413E, OP413F, OP41, OP41A, OP41B, OP41E, OP41F, OP41G, OP420, OP420B, OP420C, OP420F, OP420G, OP420H, OP421, OP421B, OP421C, OP421F, OP421G, OP421H, OP42, OP42A, OP42E, OP42F, OP42G, OP43, OP43A, OP43B, OP43E, OP43F, OP43G, OP44, OP467, OP467C, OP467G, OP470, OP482, OP482G, OP490, OP490A, OP490E, OP490F, OP490G, OP491, OP491G, OP492, OP497, OP497A, OP497B, OP497C, OP497F, OP497G, OP61, OP64, OP77, OP77A, OP77B, OP77E, OP77F, OP77G, OP80, OP80B, OP80E, OP80F, OP80G, OP90, OP90A, OP90E, OP90F, OP90G, OP97A, OP97E, OP97F, PM1012, REF01, REF01, REF01C, REF01E, REF01H, REF02, REF02A, REF02C, REF02D, REF02E, REF02H, REF05, REF05A, REF05B, REF10A, REF10B, REF195, REF195E, REF195F, REF195G, SSM2017, SSM2017P, SSM2131A, SSM2135, SSM2135P, SSM2210, SSM2220

APEX MICROTECHNOLOGY [27]

PA01, PA02, PA03, PA04, PA05, PA07, PA08, PA09, PA10, PA12, PA19, PA21, PA25, PA30, PA41, PA51, PA81, PA83, PA84, PA85, PA88, PA89, PB50, PB58, PB58A, WA01, WB05

BURR-BROWN [117]

(Op-amps, Buffers, Inst. Amps, Isolation Amps, Multiplexors, Photo Diode, Switched Integrators)

ACF2101M, BUF600X1, BUF600X2, BUF601X1, BUF601X2, INA101, INA101E, INA102, INA102E, INA103, INA103E, INA105, INA105E, INA106, INA106E, INA110, INA110E, INA111, INA111E, INA114, INA114E, INA115, INA115E, INA117, INA117E, INA120, INA131, INA131E, ISO120X, ISO121X, MPC100X1, MPC100X2, OPA1013, OPA1013E, OPA101, OPA101E, OPA102, OPA102E, OPA111, OPA111E, OPA121, OPA121E, OPA124, OPA124E, OPA128, OPA128E, OPA177, OPA177E, OPA2107, OPA2107E, OPA2111, OPA2111E, OPA2541, OPA2541E, OPA2604, OPA2604E, OPA2604M, OPA27, OPA27E, OPA27H, OPA27HE, OPA27M, OPA37, OPA37E, OPA404, OPA404E, OPA445, OPA445E, OPA501, OPA501E, OPA502, OPA502E, OPA511, OPA511E, OPA512, OPA512E, OPA541, OPA541E, OPA602, OPA602E, OPA603, OPA603X, OPA604, OPA604E, OPA604M, OPA606, OPA606E, OPA620, OPA620E, OPA620X, OPA621, OPA621E, OPA621X, OPA622X1, OPA622X2, OPA623X1, OPA623X2, OPA627, OPA627E, OPA628M, OPA637, OPA637E, OPA640X, OPA642X, OPA643X, OPA644X, OPA646X, OPA660X1, OPA660X2, OPA671M, OPA675M, OPA676M, OPA77, OPT201KP, UAF42, UAF42E, VCA610

COMLINEAR [35]

(Voltage/Current feedback Op-amps, AGC, Multiplier, Multiplexor)

CLC109, CLC111, CLC205, CLC206, CLC220, CLC231, CLC400, CLC401, CLC402, CLC404, CLC406, CLC409, CLC410, CLC414, CLC415, CLC420, CLC425, CLC426, CLC428, CLC430, CLC431, CLC432, CLC501, CLC502, CLC502, CLC505, CLC520, CLC522, CLC532

ELANTEC [64]

(Op-amps, Buffers, Multipliers, Matched Transistors, and Line Driver)

EHA2500, EHA2520, EHA2539, EHA2540, EHA2600, EHA2620, EHA5190, EL2001, EL2002, EL2003, EL2004, EL2005, EL2006, EL2008, EL2009, EL2012, EL2018, EL2022, EL2028, EL2029, EL2030, EL2038, EL2039, EL2040, EL2041, EL2044C, EL2045, EL2070, EL2071C, EL2073, EL2074, EL2075, EL2082C, EL2090, EL2099C, EL2120, EL2160, EL2190, EL2210, EL2211, EL2223, EL2224, EL2232, EL2242, EL2243, EL2245, EL2252, EL2260, EL2423, EL2424, EL2444, EL2445, EL2460, EL400, EL4089, EL4094, EL4095, EL4393, ELH0002, ELH0032, ELH0033, ELH0101, EN2016, EP2015

HARRIS [47]

HA-2500, HA-2502, HA-2510, HA-2512, HA-2520, HA-2522, HA-2539, HA-2540, HA-2541, HA-2542, HA-2544, HA-2548, HA-2600, HA-2602, HA-2620, HA-2622, HA-2839, HA-2840, HA-2841, HA-2842, HA-2850, HA-5002, HA-5004, HA-5020, HA-5033, HA-5101, HA-5102, HA-5104, HA-5112, HA-5114, HA-5190, HA-5221, HA-5222, HA-5509, HA-5509B, HFA0001, HFA0002, HFA0005

LINEAR TECHNOLOGY (166)

LF155A, LF155, LF156A, LF156, LF355A, LF355, LF356A, LF356, LF412A, LF412, LH2108A, LH2108, LM101A, LM107, LM108A, LM108, LM10C, LM118, LM301A, LM307, LM308A, LM308, LM318, LM318S8, LT1001A, LT1001, LT1001S8, LT1002A, LT1002, LT1006A, LT1006, LT1006S8, LT1007A, LT1007CS, LT1007, LT1008, LT1012A, LT1012D, LT1012, LT1012S8, LT1013A, LT1013D, LT1013, LT1014A,

LT1014D, LT1014, LT1022A, LT1022, LT1024A, LT1024, LT1028A, LT1028CS, LT1028, LT1037A, LT1037CS, LT1037, LT1055A, LT1055S8, LT1056, LT1056S8, LT1057A, LT1057, LT1057S, LT1058A, LT1058, LT1077, LT1078A, LT1078, LT1079A, LT1079, LT1097, LT1101, LT1115, LT1122, LT1178A, LT1178, LT1179A, LT1179, LT1187, LT1189, LT118A, LT118A, LT1190, LT1191, LT1192, LT1193, LT1194, LT1195, LT1200, LT1201, LT1202, LT1208, LT1209, LT1211, LT1212, LT1213, LT1214, LT1215, LT1216, LT1217, LT1220, LT1221, LT1222, LT1223, LT1224, LT1225, LT1226, LT1227, LT1228, LT1229, LT1230, LT1252, LT1253, LT1254, LT318A, LTC1049, LTC1050A, LTC1050, LTC1051, LTC1052C, LTC1052, LTC1053, LTC1150, LTC7652, OP05A, OP05C, OP05E, OP07A, OP07C, OP07CS, OP07E, OP07, OP15A, OP15B, OP15C, OP15E, OP15F, OP15G, OP16A, OP16B, OP16C, OP16E, OP16F, OP16G, OP215A, OP215C, OP215E, OP215G, OP227A, OP227C, OP227E, OP227G, OP237A, OP237C, OP237E, OP237G, OP27A, OP27C, OP27E, OP27G, OP37A, OP37C, OP37E, OP37G, OP97

MAXIM [44]

MAX402, MAX403, MAX406Ac, MAX406Ad, MAX406Bc, MAX406Bd, MAX407, MAX409A, MAX409B, MAX410, MAX410B, MAX412, MAX412B, MAX414, MAX414B, MAX417, MAX418, MAX419, MAX427, MAX435, MAX436, MAX437, MAX438, MAX439, MAX473, MAX474, MAX475, MAX47815, MAX4783, MAX4785, MAX47915, MAX4793, MAX4795, MAX492, MAX494, MAX495, MAX921, MAX922, MAX923, MAX924, MAX941, MAX942, MAX944, REF

MOTOROLA [50]

LF351, LF356, LF411, LF412, LF441, LF442, LF444, LM11, LM307, LM324, LM348, LM358, LM833, LM2902, LM2904, MC1458, MC1536, MC1747, MC3458, MC4558, MC4741, MC33071, MC33072, MC33074, MC33076, MC33077, MC33078, MC33079, MC33171, MC33172, MC33174, MC33178, LM358, LM359, LM4250C, MC33181, MC33182, MC33184, MC33204, MC33272, MC33274, MC33282, MC33284, MC34001, MC34084, MC34184, TCA0372, TL061, TL062, TL064, TL071, TL081

NATIONAL SEMICONDUCTOR [110]

LF155, LF156, LF157, LF255, LF256, LF257, LF351, LF353, LF355, LF356, LF357, LF400, LF411, LF412, LF441A, LF441, LF442A, LF442, LF444A, LF444, LF451, LF453, LH4161, LH4162, LM118, LM124, LM13600, LM13700, LM158, LM218, LM224, LM258, LM2902, LM2904, LM318, LM358, LM359, LM4250C, LM6001A, LM6041A, LM6042A, LM6044A, LM6061A, LM6062A, LM6064A, LM607, LM6081A, LM6082A, LM6084A, LM6118, LM6121, LM6121, LM6161, LM6162, LM6164, LM6165, LM6181, LM6218, LM6261, LM6262, LM6264, LM6265, LM627, LM6361, LM6362, LM6364, LM6365, LM637, LM6685, LM7131A, LM7131B, LM741, LMC6001, LMC6022, LMC6024, LMC6032, LMC6034, LMC6041, LMC6042, LMC6044, LMC6061, LMC6062, LMC6064, LMC6081, LMC6082, LMC6084, LMC6462A, LMC6462B, LMC6464A, LMC6464B, LMC6482, LMC6484, LMC6582A, LMC6582B, LMC6584A, LMC6584B, LMC660A, LMC662A, LMC662, LMC6681A, LMC6681B, LMC6682A, LMC6682B, LMC6684A, LMC6684B, LPC660A, LPC660, LMC662A, LPC661A, LPC661, LPC662A, LPC662

SGS-Thomson [48]

LF351, LF355, LF356, LF357, LM101, LM124, LM139, LM146, LM148, LM158, LM193, LM2901, LM2902, LM2903, LM2904, LM311, LM319, LM833, LS204M, LS404M, MC1458, MC33078, MC33171, MC34001, MC3403, MC4558, OP07, TDA7910, TEB1033, TL061, TL071, TL081, TS271L, TS274, TS27M4, TS339, TS3702, TS372, TS393, TS555H, TS555L, TS555M, TS912, TSH150, TSH151, UA741, UA748, UA776

TEXAS INSTRUMENTS [254]

ICL7652, LF347, LF351, LF353, LF411C, LF412C, LM101A, LM107, LM111, LM139A, LM139, LM193, LM211, LM239A, LM239, LM2901, LM2903, LM293A, LM293, LM301A, LM307, LM308, LM311, LM318, LM324, LM3302, LM339A, LM339, LM348, LM358, LM393A, LM393, LP111P, LP211, LP239, LP2901, LP311, LP339, LT1001, LT1007, LT1008, LT1011A, LT1011, LT1012, LT1013T3, LT1013T5, LT1016, LT1028, LT1037, LTC1052, MC1458, MC3403T3, MC3403T5, NE5534, OP-07C, OP-07D, OP-07E, OP-07F, OP-07G, OP-07H, RC4136, RC4558, RC4559, T1078T1, T1078T10, T1078T5, T1079T1, T1079T10, T1079T5, T2021T3, T2021T5, T2022T3, T2022T5, T2024T3, T2024T5, T2061T1, T2061T3, T2061T4, T2062T1, T2062T3, T2062T4, T2064T1, T2064T3, T2064T4, T2141T3, T2141T5, T2142T3, T2142T5, T2144T3, T2144T5, T2161T1, T2161T3, T2161T4, T2201T1, T2201T5, T2322IA, T2322IB, T2324IA, T2324IB, T2332IA, T2332IB, T2334IA, T2334IB, T2341HA, T2341HB, T2341LA, T2341LB, T2341MA, T2341MB, T2342IA, T2342IB, T2344IA, T2344IB, T2420T3, T2420T5, T2421T1, T2421T5, T2422T3, T2422T5, T251HT1, T251HT10, T251HT14, T251LT1, T251LT10, T251LT14, T251MT1, T251MT10, T252CT1, T252CT10, T252CT14, T254CT1, T254CT10, T254CT14, T25L2CT0, T25L2CT1, T25L2CT4, T25L4CT0, T25L4CT4, T25M2CT0, T25M2CT1, T25M4CT0, T25M4CT4, T271HT1, T271HT10, T271HT5, T271LT1, T271LT10, T271LT5, T271MT1, T271MT10, T271MT5, T272T1, T272T10, T272T5, T274T1, T274T10, T274T5, T277T1, T277T10, T277T5, T279T1, T279T10, T279T5, T27L2T0, T27L2T1, T27L2T5, T27L4T0, T27L4T1, T27L4T5, T27L7T0, T27L7T1, T27L7T5, T27L9T0, T27L9T1, T27L9T5, T27M2T0, T27M2T1, T27M2T5, T27M4T0, T27M4T1, T27M4T5, T27M7T0, T27M7T1, T27M7T5, T27M9T0, T27M9T1, T27M9T5, TL022C, TL031T1, TL031T3, TL032T1, TL032T3, TL034T1, TL044C, TL051T1, TL051T3, TL052T1, TL052T3, TL054T1, TL054T3, TL060, TL061, TL062, TL064, TL066, TL070, TL071, TL072, TL074, TL075, TL080, TL081, TL082, TL083, TL084, TL085, TL087, TL088, TL136, TL287, TL288, TL321, TL322T3, TL322T5, TL331, TL32652, TL32654, TLC339, TLC352, TLC354, TLC3702, TLC3704, TLC372, TLC374, TLC393, TLE2027, TLE2037, TLE2227, TLE2237, TLE2425, TLE2425A, TLE2425, TLE2426, TLE2426A, TLE2426, TLE2427, UA741, UA747, UA748

Standard Electronic Devices - Other

Vacuum Tubes [17]

Part #	Mfr.	Desc.	Specs. (Plate Voltage/Dissipation)
6SN7GTB	RCA	Triode	450V 5W
12A7	RCA	Triode	300V 2.5W
12AX7A	RCA	Triode	250V 1W
12AX7WA	Tung	Triode	330V 1W
12AU7A	RCA	Triode	250V 3W
12BY7A	RCA	Pentode	330 V 6.5W
6AQ5-A	RCA	Triode	275V 10W
6AQ6	RCA	Triode	300V
6AV6	RCA	Triode	330V .55W
6AW8-A	RCA	Pentode	330V 1.1W
BW1185J2	English	Triode	16.8kV 120kW
BW11608F	English	Triode	13kV 30kW
BW1609	English	Triode	17kV 200kW
EL9000		Pentode	
GL-807	RCA	Triode	400V 25W
Triode		Generic	
Pentode		Generic	
Heater		Generic	

Opto-Isolators [36]

Part #	Mfr.	Desc.	Specs (Vin-out, Ctr)
4N22	TI	High Gain	1kV 40%
4N23	TI	High Gain	1kV 80%
4N24	TI	High Gain	1kV 150%
4N25	TI	High Speed	2.5kV 50%
4N26	TI	High Speed	1.5kV 50%
4N27	TI	High Speed	1.5kV 30%
4N28	TI	High Speed	500V 30%
4N35	TI	High Speed	3.55kV 100%
4N36	TI	High Speed	2.5kV 100%
4N37	TI	High Speed	1.5kV 100%
4N39	Mot	SCR Output	7.5kV
4N40	Mot	SCR Output	7.5kV
4N55	H-P	High Speed	500V 20%
4N47	TI	High CTR	1kV 50%
4N48	TI	High CTR	1kV 100%
4N49	TI	High CTR	1kV 200%
6N135	TI	TTL Comp.	3kV 18%
6N136	TI	TTL Comp.	3kV 24%
HCPL4502	H-P	TTL Comp.	3kV 24%
H11A1	Mot	High Speed	500V 100%
H11A2	Mot	High Speed	500V 70%
H11A3	Mot	High Speed	500V 70%
H11B1	Mot	Darlington	500kV 500%
H11B2	Mot	Darlington	500V 200%
H11B3	Mot	Darlington	500V 100%
H11L1	Mot	Schmitt Trig	500V
H11L2	Mot	Schmitt Trig	500V
IL300	CP	Dual	
LOC110	Siem	Dual	
MCT6	GI	Dual	500V 50%
MCT66	GI	Dual	500V 15%
O66092	Micro	Stable	
TIL186-1	TI	AC-Input	2.5kV 10%
TIL186-2	TI	AC-Input	2.5kV 20%
TIL186-3	TI	AC-Input	2.5kV 50%
TIL186-4	TI	AC-Input	2.5kV 100%

Legend

Micro - Micropac
 Phil - Philips
 I.R. - International Rectifier
 CP - C.P. Claire
 RCA - Hewlett-Packard
 Uni - Unitorde
 Tung - Tung-Sol
 English - English Electric
 Valve Co.

Varistors (MOVs) [37]

Part #	Mfr.	Desc.	Specs. (RMS Voltage)
592A14	Phil	Series A	14 Volts
592A14	Phil	SeriesA	14 Volts
592A17	Phil	SeriesA	17 Volts
592A20	Phil	SeriesA	20 Volts
592A25	Phil	SeriesA	25 Volts
592B30	Phil	SeriesB	30 Volts
592B35	Phil	SeriesB	35 Volts
592B40	Phil	SeriesB	40 Volts
592C460	Phil	SeriesC	40 Volts
V130LA20A	Har		130V
V150LA20A	Har		150V
V250LA40A	Har		250V
V275LA40A	Har		275V
V36ZA80	Har		36V
V151BA60	Har		150V
V131BA60	Har		130V
V131HA32	Har		130V
V131HA40	Har		130V
V151HA32	Har		150V
V151HA40	Har		150V
V251HA32	Har		250V
V251HA40	Har		250V
V271HA32	Har		270V
V271HA40	Har		270V
V321HA32	Har		320V
V321HA40	Har		320V
V421HA32	Har		420V
V421HA40	Har		420V
V481HA32	Har		480V
V481HA40	Har		480V
V511HA32	Har		510V
V511HA40	Har		510V
V571HA32	Har		570V
V571HA40	Har		570V
V661HA32	Har		660V
V661HA40	Har		660V
V751HA32	Har		750V
V751HA40	Har		750V

Analog Behavioral Models

ISpICE is more than able to perform efficient system analyses using Intusoft's analog behavioral models. The wide variety of transfer functions allow representations of complex systems to be easily built and varied. Systems using differential equations can also be solved using these models. These behavioral models are very versatile and can be used in a variety of simulations where an analog function is required, but the duplication of the actual IC topology is not. **No extra expensive options are needed to use these models.**

Mathematical Functions [20]

Part	Description
Absolute Value	$V_{out} = V_{in} $
Add/Subtract (2)	$V_{out} = K1 * V_{in1} + K2 * V_{in2}$
Add/Subtract (3)	$V_{out} = K1 * V_{in1} + K2 * V_{in2} + K3 * V_{in3}$
Bessel	$J_0(V_{in})$ & $J_1(V_{in})$, $0 \leq V_{in} \leq 5$
Cosine	$V_{out} = \cos(V_{in})$
Differentiation	$V_{out} = d(V_{in})/dt$
Divide	$V_{out} = V_{in1}/V_{in2}$
e ^x	$V_{out} = e^{(V_{in})}$
Gain	$V_{out} = K * V_{in}$
Hyperbolic Tan	$V_{out} = \text{Htan}(V_{in})$
Integration	$V_{out} = \int V_{in}$
Log	$V_{out} = \ln(V_{in})$
Multiply (2)	$V_{out} = K * V_{in1} * V_{in2}$
Multiply (3)	$V_{out} = K * V_{in1} * V_{in2} * V_{in3}$
Signum	$V_{out}(\pm 1V) = -V_{in}$
Sin	$V_{out} = \sin(V_{in})$
Square Cube	$V_{out} = V_{in}^2, V_{in}^3$
Square Root	$V_{out} (V_{in})^5$
Tan	$V_{out} = \tan(V_{in})$
Variable Exp.	$V_{out} = (V_{in1})^{V_{in2}}$

Laplace & Z Domain [10]

Part	Description
Integrator	$K * V_{in} / s$
Integrator with Initial Conditions and Limits	$K * V_{in} / s$
Limiter	$K * V_{in}$
Differentiator	$K * V_{in} * s$
First Order Pole and Zero	$\frac{K * V_{in} * (s / (2 * \pi * FO) + 1))}{(s / (2 * \pi * FP) + 1)}$
First Order Pole	$\frac{K * V_{in} * \omega_n}{(s + \omega_n)}$

Second Order Pole	$\frac{K * V_{in} * \omega_n^2}{(s^2 + 2Z * \omega_n * s + \omega_n^2)}$
Z Transform Integrator	$\frac{K * TD * V_{in}}{(1 - Z^{-1})}$
Z Transform Integrator	$\frac{K * TD * V_{in} * Z^{-1}}{(1 - Z^{-1})}$
Z Transform Differentiator	$K / TD * V_{in} * (1 - Z^{-1})$

Mechanical Functions [7]

Part	Description
Servo Motor Load	$\frac{KT * V_{in} / F}{s (J / F * s + 1)}$
Gears Motor	Gear Ratio V/I in -> Speed/Torque Out
Static/Dynamic Friction	
Torsion Spring	
Inertia	
Rate-to-Angle Conversion	

Fuzzy Logic Functions [4]

Part	Description
Max	$V_{out} = \max(V_{in1}, V_{in2})$
Max3	$V_{out} = \max(V_{in1}, V_{in2}, V_{in3})$
Min	$V_{out} = \min(V_{in1}, V_{in2})$
Min3	$V_{out} = \min(V_{in1}, V_{in2}, V_{in3})$

Neural Networks [2]

Part	Description
Axon	Voltage In, Current Summation In, Back Propagation Out, Weights Out
Cell	Current summation, Back propagation In and Out

NOTES:

K is a constant multiplier set at runtime by the user. V_{in} is the signal input, usually a voltage. V_{out} is the resulting output voltage. FO=Zero Frequency, FP=Pole Frequency, Z=damping factor, FN=Natural Frequency, and $\omega_n = 2 * \pi * FN$

The Intusoft Modeling Advantage

Intusoft is the only company which provides a comprehensive set of SPICE models for Switched Capacitor network and filter design.

Switched Capacitor Filters [5]

Part #	Mfr.	Description
MF5	Nat	Single SC Filter Block
MF10	Nat	Dual SC Filter Block
LTC1059	Linear	Single SC Filter Block
LTC1060	Linear	Dual SC Filter Block
LTC1064	Linear	Quad SC Filter Block

SC Elements [8]

Description

Zero Order Hold
Unit Time Delay
Resistor Proportional to C
NegativeStoristor
Positive Storistor
SCN Integrator
Toggle Switch
Toggle Switch for Integrator Summing
Floating Capacitor

Comparators [7]

Part #	Mfr.	Desc.	
LM111	TI	Common Emitter	± 18V
LM311	TI	Common Emitter	± 18V
LM139	TI	Common Emitter	2-36V
LM193	TI	Common Emitter	2-36V
UA710	TI	Emitter Follower	± 15V
LM306	Nat	Common Emitter	± 15V
NE527	Phil	Complementary	± 15V

Voltage Regulators & References [6]

Part #	Mfr.	Desc.	Specs. (Output)
UA723	TI	Precision	2V-27V
LM317	TI	3-Term Adj.	1.2V-37V
LM317	Mot	3-Term Adj.	1.2V-37V
LM317NC	TI	3-Term Adj.	1.2V-37V
LM136	Nat	Reference	
TL431	TI	Precision Reference	

Analog Switches[3]

Part #	Mfr.	Description
DG200	Sili	CMOS/TTL SPST
DG201	Sili	CMOS/TTL SPST
CD4066B	RCA	CMOS Bilateral

Other ICs [3]

Part #	Mfr.	Desc.
LM555	Nat	Timer
UA555	Nat	Timer
TS555	SGS	Timer
ICL7667	Nat	Power Mosfet Driver
HIP2500	Harris	Power Mosfet Driver

Coaxial Cable [92]

Part

RG4, RG5, RG5A, RG5B, RG6, RG6A, RG7, RG8, RG8A, RG9, RG10, RG100, RG10A, RG11, RG11A, RG12, RG12A, RG13, RG13A, RG14, RG14A, RG15, RG16, RG17, RG17A, RG18, RG18A, RG19, RG19A, RG20, RG20A, RG21, RG21A, RG25A, RG26A, RG27A, RG28B, RG29, RG34, RG34A, RG34B, RG35, RG35A, RG35B, RG36, RG37, RG38, RG39, RG40, RG41, RG42, RG54, RG54A, RG55, RG55A, RG55B, RG58, RG58A, RG58B, RG58C, RG59, RG59A, RG59B, RG62, RG62A, RG62B, RG63, RG63A, RG63B, RG64, RG64A, RG65, RG65A, RG71, RG71A, RG71B, RG73, RG74, RG74A, RG77A, RG78A, RG79, RG79A, RG79B, RG81, RG82, RG83, RG84A, RG85A, RG87A, RG88, RG88A, RG88B, RG89, RG90, RG93, RG94, RG94A, RG9A, RG9B, RG114, RG114A, RG115, RG115A, RG116, RG117, RG117A, RG118, RG118A, RG119, RG120, RG122, RG124, RG133, RG133A, RG140, RG141, RG141A, RG142, RG142A, RG142B, RG143, RG143A, RG144, RG147, RG148, RG149, RG150, RG156, RG157, RG158, RG159, RG161, RG164, RG165, RG166, RG174, RG174A, RG176, RG177

Coax Generic
Microstrip Generic
2 conductor coupled line
3 conductor coupled line

The Intusoft Modeling Advantage

A variety of Digital Logic elements have been created using exact transistor representations, digital primitive models, and Boolean Logic Expressions. These elements can be used to simulate virtually any logic family and allow IsSPICE to efficiently perform mixed-mode simulations.

Digital Logic[188] Logic Gate Primitives

Part	Description
Oneshot	Controlled Oneshot
DVCO	Digital oscillator
MIDI_OSC	MIDI oscillator
BUFFER	Buffer
INVERTER	Inverter
XOR	Exclusive OR
XNOR	Exclusive NOR
OR2	2 input OR
OR3	3 input OR
OR4	4 input OR
NOR2	2 input NOR
NOR3	3 input NOR
NOR4	4 input NOR
AND2	2 input AND
AND3	3 input AND
AND4	4 input AND
NAND2	2 input NAND
NAND3	3 input NAND
NAND4	4 input NAND
Tristate	Tristate block
OPENC	Open collector block
OPENE	Open emitter block
LOGIC0	Constant logic high
LOGIC1	Constant Logic Low
DFF	D Flip-flop
TFF	Toggle Flip-flop
JKFF	JK Flip-flop
SRFF	SR Flip-flop
DLATCH	D Latch
SRLATCH	SR Latch
FREQDIV	Frequency divider
DSRC1	1 output digital src
DSRC2	2 output digital src
DSRC3	3 output digital src
DSRC7	7 output digital src
DSRC8	8 output digital src
STATE2	2 bit up/down counter state machine
BCNT	3-bit binary counter state machine
RAM2_1	Digital RAM model
CLK	Digital clock using digital oscillator
DSRC	Digital source
Mux	Multiplexor
A/D	1 Bit A/D
D/A	1 Bit D/A
Delay	Time Delay

CMOS Gates (Transistor level)

Part #	Description
CD4001B	2-Input Nor Gate
CD4001UB	2-Input Nor Gate
CD4011B	2-Input Nand Gate
CD4025B	3-input Nor Gate
CD4049UB	Inverter
CD4050B	Buffer
CD4069UB	Inverter
CD4093B	Nand Schmitt Trigger

TTL Gates (Transistor level)

Part #	Description
74STTL	Inverter
74TTL	Inverter
74L04	Inverter
9200TTL	Inverter
7401	2-input NAND OC
7402	2-input NOR
7403	2-input NAND OC
7403B	Behavioral
7405	Inverter OC
7406	Inverter HV
7407	Buffer HV
7413B	Behavioral
7422	4-input NAND OC

HC/HCT Gates (Transistor level)

Part #	Description
HC00	NAND Gate
HCT00	NAND Gate
HC02	NOR Gate
HCT02	NOR Gate
HC04	Inverter
HCT04	Inverter
HC125	Bus Buffer 3-st.
HC126	Bus Buffer 3-st.

I/O Stages (Transistor level)

Part	Description
ECL	Inverter
MECL III	Inverter
TTL	Inverter

ABT Series

ABT00, ABT125, ABT240, ABT240_1, ABT241, ABT241A, ABT241A1, ABT244_1, ABT273, ABT373, ABT377, ABT543, ABT544, ABT573, ABT657, ABT821_1, ABT899, MB2052, MB2053, MB2240, MB2241, MB2374,

ALS Series

ALS00A, ALS151, ALS240A1

Fast Series

F00, F06, F125, F168, F173, F181OC, F240, F3037, F3038, F37, F543_64, F595, F595_3S, F620_24, F621_24, F621_64, F646A, F711, F723_1

IBIS Models [45]

(Note: Intusoft Technical Support makes IBIS models FREE for registered customers)

82430, 82375SB, 82374SB, 82375EB, PCI, PCMC

Sample-Data Elements [4]

Real Gain, Real Delay, Summation, Multiplication

The Intusoft Modeling Advantage

Using the specially developed thermal models, IS_{SPICE} is able to perform circuit analysis using temperature as a dynamic variable. In 1991, Intusoft published the world's first SPICE based Fuse model. With it, designers can now simulate the effects of fusing action, fuse resistance, and circuit stress on their designs.

Thermal Models [6]

NPN Transistor	Generic
PNP Transistor	Generic
Diode	Generic
Thermistor	Generic
Tungsten Lamp	Generic
Thermal Cell	Generic

Fuses [48]

Part #	Mfr.	Desc.	Rated V/I
229.250	LittleFuse	Slow	250V .25A
229.375	LittleFuse	Slow	250V .375A
229.500	LittleFuse	Slow	250V .5A
229.600	LittleFuse	Slow	250V .6A
229.750	LittleFuse	Slow	250V .75A
229001	LittleFuse	Slow	250V 1A
22901.5	LittleFuse	Slow	250V 1.5A
229002	LittleFuse	Slow	250V 2A
2292.25	LittleFuse	Slow	250V 2.25A
22902.5	LittleFuse	Slow	250V 2.5A
229003	LittleFuse	Slow	250V 3A
22903.5	LittleFuse	Slow	250V 3.5A
229004	LittleFuse	Slow	125V 4A
229005	LittleFuse	Slow	125V 5A
229007	LittleFuse	Slow	125V 7A
225.100	LittleFuse	Fast	250V .1A
225.125	LittleFuse	Fast	250V .125A
225.250	LittleFuse	Fast	250V .25A
225.375	LittleFuse	Fast	250V .375A
225.500	LittleFuse	Fast	250V .5A
225.750	LittleFuse	Fast	250V .75A
225001	LittleFuse	Fast	250V 1A
22501.5	LittleFuse	Fast	250V 1.5A
225002	LittleFuse	Fast	250V 2A
22502.5	LittleFuse	Fast	250V 2.5A
225003	LittleFuse	Fast	250V 3A
22503.5	LittleFuse	Fast	250V 3.5A
225004	LittleFuse	Fast	125V 4A
225005	LittleFuse	Fast	125V 5A
225006	LittleFuse	Fast	125V 6A
225007	LittleFuse	Fast	125V 7A
225008	LittleFuse	Fast	125V 8A
225010	LittleFuse	Fast	125V 10A
8AG100	Bel	Normal	250V .1A
8AG125	Bel	Normal	250V .125A
8AG250	Bel	Normal	250V .25A
8AG375	Bel	Normal	250V .375A
8AG500	Bel	Normal	250V .5A
8AG750	Bel	Normal	250V .75A
8AG1	Bel	Normal	250V 1A
8AG1.5	Bel	Normal	250V 1.5A
8AG2	Bel	Normal	250V 2A
8AG2.5	Bel	Normal	125V 2.5A
8AG3	Bel	Normal	125V 3A
8AG4	Bel	Normal	125V 4A
8AG5	Bel	Normal	125V 5A
8AG6	Bel	Normal	125V 6A
8AG7	Bel	Normal	125V 7A

Thermistors [131]

Part #	Mfr.	Desc.	
D320A130M	Ther	NTC	20% 850MA
D320A200M	Ther	NTC	20% 690MA
D320A300M	Ther	NTC	20% 560MA
D320A400L	Ther	NTC	15% 480MA
D320A500L	Ther	NTC	15% 387MA
D320A600L	Ther	NTC	15% 353MA
D320A800L	Ther	NTC	15% 345MA
D320A131K	Ther	NTC	15% 271MA
D320A252L	Ther	NTC	15% 61MA
D200A700L	Ther	NTC	15% 290MA
D200A900L	Ther	NTC	15% 261MA
D200A101L	Ther	NTC	15% 248MA
D200A121L	Ther	NTC	15% 226MA
D200A151L	Ther	NTC	15% 202MA
D200A201L	Ther	NTC	15% 176MA
D200A221L	Ther	NTC	15% 168MA
D200A251L	Ther	NTC	15% 157MA
D200A271L	Ther	NTC	15% 152MA
D200A301L	Ther	NTC	15% 146MA
D200A401L	Ther	NTC	15% 120MA
D200A501L	Ther	NTC	15% 111MA
D200B651L	Ther	NTC	15% 130MA
D200B102L	Ther	NTC	15% 105MA
D200B152L	Ther	NTC	15% 85MA
D200B202L	Ther	NTC	15% 74MA
D200B252L	Ther	NTC	15% 69MA
D200B302L	Ther	NTC	15% 63MA
D200B402L	Ther	NTC	15% 54MA
D200B502L	Ther	NTC	15% 49MA
D200B682L	Ther	NTC	15% 42MA
D200B103L	Ther	NTC	15% 39MA
D200B203L	Ther	NTC	15% 27MA
D200B303L	Ther	NTC	15% 17MA
D200B104L	Ther	NTC	15% 15MA
NT7332K102	KOA	NTC	10%
NT7332L102	KOA	NTC	15%
NT7332M102	KOA	NTC	20%
NT7333K471	KOA	NTC	10%
NT7333L471	KOA	NTC	15%
NT7333M471	KOA	NTC	20%
NT7335K222	KOA	NTC	10%
NT7335L222	KOA	NTC	15%
NT7335M222	KOA	NTC	20%
NT7335K332	KOA	NTC	10%
NT7335L332	KOA	NTC	15%
NT7335M332	KOA	NTC	20%
NT7335K472	KOA	NTC	10%
NT7335L472	KOA	NTC	15%
NT7335M472	KOA	NTC	20%
NT7338K682	KOA	NTC	10%
NT7338L682	KOA	NTC	15%
NT7338M682	KOA	NTC	20%
NT7338K103	KOA	NTC	10%
NT7338L103	KOA	NTC	10%
NT7338M103	KOA	NTC	15%
NT7338K223	KOA	NTC	10%
NT7338L223	KOA	NTC	15%
NT7338M223	KOA	NTC	20%
NT7338K333	KOA	NTC	10%

Thermistors

Part #	Mfr.	Desc.	
NT7338L333	KOA	NTC	15%
NT7338M333	KOA	NTC	20%
NT7338K473	KOA	NTC	10%
NT7338L473	KOA	NTC	15%
NT7338M473	KOA	NTC	20%
NT7338K683	KOA	NTC	10%
NT7338L683	KOA	NTC	15%
NT7338M683	KOA	NTC	20%
NT7338K104	KOA	NTC	10%
NT7338L104	KOA	NTC	15%
NT7338M104	KOA	NTC	20%
TG1/8821J	Uni	PTC	5% 1/8W
TM1/8821J	Uni	PTC	5% 1/8W
RTH42/8821J	Uni	PTC	5% 1/8W
RTH22/8821J	Uni	PTC	5% 1/8W
TM1/4821J	Uni	PTC	5% 1/4W
TG1/8821K	Uni	PTC	10% 1/8W
TM1/8821K	Uni	PTC	10% 1/8W
RTH42/8821K	Uni	PTC	10% 1/8W
RTH22/8821K	Uni	PTC	10% 1/8W
TM1/4821K	Uni	PTC	10% 1/4W
TG1/8102J	Uni	PTC	5% 1/8W
TM1/8102J	Uni	PTC	5% 1/8W
RTH42/8102J	Uni	PTC	5% 1/8W
RTH22/8102J	Uni	PTC	5% 1/8W
TM1/4102J	Uni	PTC	5% 1/4W
TG1/8102K	Uni	PTC	10% 1/8W
TM1/8102K	Uni	PTC	10% 1/8W
RTH42/8102K	Uni	PTC	10% 1/8W
RTH22/8102K	Uni	PTC	10% 1/8W
TM1/4102K	Uni	PTC	10% 1/4W
TG1/8122J	Uni	PTC	5% 1/8W
TM1/8122J	Uni	PTC	5% 1/8W
RTH42/8122J	Uni	PTC	5% 1/8W
RTH22/8122J	Uni	PTC	5% 1/8W
TM1/4122J	Uni	PTC	5% 1/4W
TG1/8122K	Uni	PTC	10% 1/8W
TM1/8122K	Uni	PTC	10% 1/8W
RTH42/8122K	Uni	PTC	10% 1/8W
RTH22/8122K	Uni	PTC	10% 1/8W
TM1/4122K	Uni	PTC	10% 1/4W
TG1/8152J	Uni	PTC	5% 1/8W
TM1/8152J	Uni	PTC	5% 1/8W
RTH42/8152J	Uni	PTC	5% 1/8W
RTH22/8152J	Uni	PTC	5% 1/8W
TM1/4152J	Uni	PTC	5% 1/4W
TG1/8152K	Uni	PTC	10% 1/8W
TM1/8152K	Uni	PTC	10% 1/8W
RTH42/8152K	Uni	PTC	10% 1/8W
RTH22/8152K	Uni	PTC	10% 1/8W
TM1/4152K	Uni	PTC	10% 1/4W
TG1/8182J	Uni	PTC	5% 1/8W
TM1/8182J	Uni	PTC	5% 1/8W
RTH42/8182J	Uni	PTC	5% 1/8W
RTH22/8182J	Uni	PTC	5% 1/8W
TM1/4182J	Uni	PTC	5% 1/4W
TG1/8182K	Uni	PTC	10% 1/8W
TM1/8182K	Uni	PTC	10% 1/8W
RTH42/8182K	Uni	PTC	10% 1/8W
RTH22/8182K	Uni	PTC	10% 1/8W
TM1/4182K	Uni	PTC	10% 1/4W
TG1/8222J	Uni	PTC	5% 1/8W
TM1/8222J	Uni	PTC	5% 1/8W
RTH42/8222J	Uni	PTC	5% 1/8W
RTH22/8222J	Uni	PTC	5% 1/8W
TM1/4222J	Uni	PTC	5% 1/4W
TG1/8222K	Uni	PTC	10% 1/8W
TM1/8222K	Uni	PTC	10% 1/8W
RTH42/8222K	Uni	PTC	10% 1/8W
RTH22/8222K	Uni	PTC	10% 1/8W
TM1/4222K	Uni	PTC	10% 1/4W

Hall Effect Sensors [10]

Part #	Mfr.	Desc.
BH200	FW Bell	Transverse 15mV/kG
BH203	FW Bell	Axial 10mV/kG
BH208	FW Bell	Ultra-Thin Axial 10mV/kG
BH700	FW Bell	Transverse 50mV/kG
BH705	FW Bell	Transverse 10mV/kG
BHA910	FW Bell	High Linearity .8mV/kG
BHT910	FW Bell	High Linearity .8mV/kG
FH301	FW Bell	Low Current 10mV/kG
FH540	FW Bell	Low Current 12mV/kG
GH600	FW Bell	High Freq. Compensated

Pressure Sensors [31]

Part #	Mfr.	Desc.
SPX50A	SenSym	Absolute 50kPa
SPX100A	SenSym	Absolute 100kPa
SPX200A	SenSym	Absolute 200kPa
SPX50D	SenSym	Differential 50kPa
SPX100D	SenSym	Differential 100kPa
SPX200D	SenSym	Differential 200kPa
SCC05A	SenSym	Absolute 5 psia
SCC05D	SenSym	Differential 5 psid(g)
SCC15A	SenSym	Absolute 15 psia
SCC15D	SenSym	Differential 15 psid(g)
SCC30D	SenSym	Differential 30 psid(g)
SCC100G	SenSym	Gage 100 psig
SCC100A	SenSym	Absolute 100 psia
SCC300A	SenSym	Absolute 300 psia
SX01	SenSym	Diff/Gage 1 psid(g)
SX05	SenSym	Diff/Gage 5 psid(g)
SX15D	SenSym	Differential 15 psid
SX15A	SenSym	Absolute 15 psia
SX30D	SenSym	Differential 30psid
SX30A	SenSym	Absolute 30 psia
SX100D	SenSym	Differential 100 psid
SX100A	SenSym	Absolute 100 psia
SX150D	SenSym	Differential 150 psid
SX150A	SenSym	Absolute 150 psia
SSX15G	SenSym	Gage 15 psig
SSX30G	SenSym	Gage 30 psig
SSX100G	SenSym	Gage 100 psig
SSX150G	SenSym	Gage 150 psig
SSX300G	SenSym	Gage 300 psig
SSX500G	SenSym	Gage 500 psig
SPX50A	SenSym	Absolute 50kPa

Standard Electronic Devices - Other

Enhanced Signal Sources [22]

Description	Variables
Sin	Starting Phase, Amp., Freq.
Pulse	Duty Cycle, Levels
Sawtooth	Duty Cycle, Levels
VCOs	Peak Amp., Nonlinear Freq./Vin Square, Triangle or Sine output
AM	Amplitude, % Modulation, Freq.
FM	Amplitude, % Modulation, Freq.
Power Supply	Levels
Random	# of Pts., RMS Voltage
Noise Sources	
Pseudo-Random	Repeating digital signal
Bit pattern	
Three Phase	Amp., Mag. error, Phase Unbal.
Generator	Frequency
Variable	Angle, Amplitude, Frequency
Phase Generator	
Voltage Controlled Phase Generator	
FSK	
PSK	
RWAVE	0.5us 100kHz Ring Wave
RWAVE5K	5K Ring Wave
WAVE101K	10us/1000us Waveform
WAVE1250	1.2us/50us Waveform
WAVE820	8us/20us Waveform
WAVEEFT	EFT Waveform
NTSC	Video Signal
Output Convert	Converts any simulated signal to a Stimulus signal

Connectors [386]

Description	Mfr.
Single Line Connectors	AMP
MPSMT25	Berg
Card-Edge Computerbus	Burndy
Generic D-Type	

Miscellaneous [13]

Part #	Desc.
Platres	Thermal Sensor
10k Ohm	Potentiometer
50k Ohm	Potentiometer
100k Ohm	Potentiometer
1 Meg Ohm	Potentiometer
10 k Hz	Crystal
32.768 kHz	Crystal
100 kHz	Crystal
3.579545 MegHz	Crystal
8.00 MegHz	Crystal
10 MegHz	Crystal
16 MegHz	Crystal
32 MegHz	Crystal

