

SEMICONDUCTORS - DISCREET DEVICES

DIODES



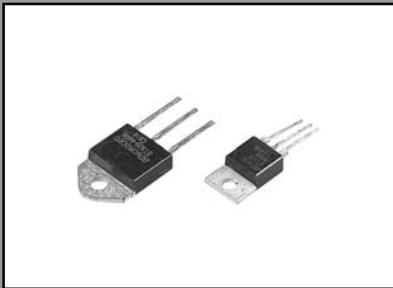
ZENER DIODES



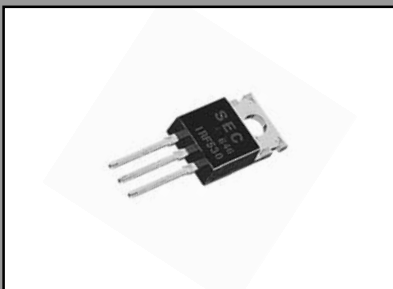
BRIDGE RECTIFIERS



TRIACS



MOSFETS



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SQUIRES MODEL & CRAFT TOOLS

ZENER DIODES

ZENER DIODES a comprehensive range of sub miniature 500mW zener diodes housed in a glass encapsulation. Nominal Voltage rating is given by last digits of type No. i.e. BZX55C2V7 = 2.7 Volts and BZX55C33 = 33 Volts.

Technical Specification

Device	Vz mon.(V)	Vz min.(V)	Vz max.(V)
BZX55C2V7	2.7	2.5	2.9
BZX55C3V0	3	2.8	3.2
BZX55C3V3	3.3	3.1	3.5
BZX55C3V6	3.6	3.4	3.8
BZX55C3V9	3.9	3.7	4.1
BZX55C4V3	4.3	4	4.6
BZX55C4V7	4.7	4.4	5
BZX55C5V1	5.1	4.8	5.4
BZX55C5V6	5.6	5.2	6
BZX55C6V2	6.2	5.8	6.6
BZX55C6V8	6.8	6.4	7.2
BZX55C7V5	7.5	7	7.9
BZX55C8V2	8.2	7.7	8.7
BZX55C9V1	9.1	8.5	9.6
BZX55C10	10	9.4	10.6
BZX55C11	11	10.4	11.6
BZX55C12	12	11.4	12.7
BZX55C13	13	12.4	14.1
BZX55C15	15	13.8	15.6
BZX55C16	16	15.3	17.1
BZX55C18	18	16.8	19.1
BZX55C20	20	18.8	21.2
BZX55C22	22	20.8	23.3
BZX55C24	24	22.8	25.6
BZX55C27	27	25.1	28.9
BZX55C30	30	28	32
BZX55C33	33	31	35

CODE	TYPE	PRICE
700-500	Zener Diode 500mW BZX55C2V7.....	£0.06
700-505	Zener Diode 500mW BZX55C3V0.....	£0.06
700-510	Zener Diode 500mW BZX55C3V3.....	£0.06
700-515	Zener Diode 500mW BZX55C3V6.....	£0.06
700-520	Zener Diode 500mW BZX55C3V9.....	£0.06
700-525	Zener Diode 500mW BZX55C4V3.....	£0.06
700-530	Zener Diode 500mW BZX55C4V7.....	£0.06
700-535	Zener Diode 500mW BZX55C5V1.....	£0.06
700-540	Zener Diode 500mW BZX55C5V6.....	£0.06
700-545	Zener Diode 500mW BZX55C6V2.....	£0.06
700-550	Zener Diode 500mW BZX55C6V8.....	£0.06
700-555	Zener Diode 500mW BZX55C7V5.....	£0.06
700-560	Zener Diode 500mW BZX55C8V2.....	£0.06
700-565	Zener Diode 500mW BZX55C9V1.....	£0.06
700-570	Zener Diode 500mW BZX55C10.....	£0.06
700-575	Zener Diode 500mW BZX55C11.....	£0.06
700-580	Zener Diode 500mW BZX55C12.....	£0.06
700-585	Zener Diode 500mW BZX55C13.....	£0.06
700-590	Zener Diode 500mW BZX55C15.....	£0.06
700-595	Zener Diode 500mW BZX55C16.....	£0.06
700-600	Zener Diode 500mW BZX55C18.....	£0.06
700-605	Zener Diode 500mW BZX55C20.....	£0.06
700-610	Zener Diode 500mW BZX55C22.....	£0.06
700-615	Zener Diode 500mW BZX55C24.....	£0.06
700-620	Zener Diode 500mW BZX55C27.....	£0.06
700-625	Zener Diode 500mW BZX55C30.....	£0.06
700-630	Zener Diode 500mW BZX55C33.....	£0.06

**FREE PARKING FOR 2 HOURS
OUTSIDE OF OUR SHOP**

BZX85C SERIES 1.3W ZENER DIODES DO41 a range of 1.3W-rated Zener diodes with a five percent tolerance housed in a plastic DO-41 package. A glass passivated junction provides improved reliability. Rated at 1.3W and available in the most popular voltages. Coloured band denotes cathode and operating/storage temperature is range: -55°C to +175°C. Maximum forward voltage drop: 1.0V.

Technical Specification

Device	Vz min. (V)	Vz max. (V)	@ Izt (mA)
BZX85C6V2GP	5.8	6.6	35
BZX85C6V8GP	6.4	7.2	35
BZX85C7V5GP	7	7.9	35
BZX85C8V2GP	7.7	8.7	25
BZX85C9V1GP	8.5	8.5	25
BZX85C10GP	9.4	9.6	25
BZX85C11GP	10.4	11.6	20
BZX85C12GP	11.4	12.7	20
BZX85C13GP	12.4	14.1	20
BZX85C15GP	13.8	15.6	15
BZX85C16GP	15.3	17.1	15
BZX85C18GP	16.8	19.1	15
BZX85C20GP	18.8	21.2	10
BZX85C22GP	20.8	23.3	10
BZX85C24GP	22.8	25.6	10
BZX85C27GP	25.1	28.9	8
BZX85C30GP	28	32	8
BZX85C33GP	31	35	8
BZX85C36GP	34	38	8
BZX85C43GP	40	46	6
BZX85C47GP	44	50	4

CODE	TYPE	Vz	PRICE
24-5084	Zener Diode 1.3W BZX85C6V2GP 6.2V.....	£0.08	
24-5086	Zener Diode 1.3W BZX85C6V8GP 6.8V.....	£0.08	
24-5088	Zener Diode 1.3W BZX85C7V5GP 7.5V.....	£0.08	
24-5090	Zener Diode 1.3W BZX85C8V2GP 8.2V.....	£0.08	
24-5092	Zener Diode 1.3W BZX85C9V1GP 9.1V.....	£0.08	
24-5094	Zener Diode 1.3W BZX85C10GP 10V.....	£0.08	
24-5096	Zener Diode 1.3W BZX85C11GP 11V.....	£0.08	
24-5098	Zener Diode 1.3W BZX85C12GP 12V.....	£0.08	
24-5100	Zener Diode 1.3W BZX85C13GP 13V.....	£0.08	
24-5102	Zener Diode 1.3W BZX85C15GP 15V.....	£0.08	
24-5104	Zener Diode 1.3W BZX85C16GP 16V.....	£0.08	
24-5106	Zener Diode 1.3W BZX85C18GP 18V.....	£0.08	
24-5108	Zener Diode 1.3W BZX85C20GP 20V.....	£0.08	
24-5110	Zener Diode 1.3W BZX85C22GP 22V.....	£0.08	
24-5112	Zener Diode 1.3W BZX85C24GP 24V.....	£0.08	
24-5114	Zener Diode 1.3W BZX85C27GP 27V.....	£0.08	
24-5116	Zener Diode 1.3W BZX85C30GP 30V.....	£0.08	
24-5118	Zener Diode 1.3W BZX85C33GP 33V.....	£0.08	
24-5120	Zener Diode 1.3W BZX85C36GP 36V.....	£0.08	
24-5188	Zener Diode 1.3W BZX85C43GP 43V.....	£0.08	
24-5190	Zener Diode 1.3W BZX85C47GP 47V.....	£0.08	

**IF THERE ARE ANY ITEMS
THAT WE HAVE FORGOTTEN
WHILST ADDING OUR NEW RANGES**

**PLEASE FEEL FREE
TO LET US KNOW**

SQUIRES ELECTRONIC COMPONENTS

ZENER DIODES a comprehensive range of sub miniature 1.3W zener diodes housed in a glass encapsulation. Nominal Voltage rating is given by last digits of type No. i.e. BZX4V7 = 4.7 Volts and BZX39 = 39 Volts.

Technical Specification

Device	Vz mon.(V)	Vz min.(V)	Vz max.(V)
BZX85C4V7	4.7	4.4	5
BZX85C5V1	5.1	4.8	5.4
BZX85C5V6	5.6	5.2	6
BZX85C6V2	6.2	6.2	6.5
BZX85C6V8	6.8	6.4	7.2
BZX85C7V5	7.5	7	7.9
BZX85C8V2	8.2	7.7	8.7
BZX85C9V1	9.1	8.5	9.6
BZX85C10V	10	9.4	10.6
BZX85C12V	12	11.4	12.7
BZX85C13V	13	12.4	14.1
BZX85C15V	15	13.8	15.6
BZX85C16	16	15.3	17.1
BZX85C18V	18	16.8	19.1
BZX85C22V	22	20.8	23.3
BZX85C24V	24	22.8	25.6
BZX85C27V	27	25.1	28.9
BZX85C30V	30	28	32
BZX85C33V	33	31	35
BZX85C36V	36	34	38
BZX85C39V	39	37	41
BZX85C47	47	44	50
BZX85C56	56	52	60
BZX85C67	67	64	72
BZX85C75	75	70	80

CODE	TYPE	PRICE
700-700	Zener Diode 1.3W BZX85C4V7.....	£0.08
700-705	Zener Diode 1.3W BZX85C5V1.....	£0.08
700-710	Zener Diode 1.3W BZX85C5V6.....	£0.08
700-715	Zener Diode 1.3W BZX85C6V2.....	£0.08
700-720	Zener Diode 1.3W BZX85C6V8.....	£0.08
700-725	Zener Diode 1.3W BZX85C7V5.....	£0.08
700-730	Zener Diode 1.3W BZX85C8V2.....	£0.08
700-735	Zener Diode 1.3W BZX85C9V1.....	£0.08
700-740	Zener Diode 1.3W BZX85C10V.....	£0.08
700-750	Zener Diode 1.3W BZX85C12V.....	£0.08
700-755	Zener Diode 1.3W BZX85C13V.....	£0.08
700-760	Zener Diode 1.3W BZX85C15V.....	£0.08
700-765	Zener Diode 1.3W BZX85C16.....	£0.08
700-770	Zener Diode 1.3W BZX85C18V.....	£0.08
700-780	Zener Diode 1.3W BZX85C22V.....	£0.08
700-785	Zener Diode 1.3W BZX85C24V.....	£0.08
700-790	Zener Diode 1.3W BZX85C27V.....	£0.08
700-795	Zener Diode 1.3W BZX85C30V.....	£0.08
700-800	Zener Diode 1.3W BZX85C33V.....	£0.08
700-805	Zener Diode 1.3W BZX85C36V.....	£0.08
700-810	Zener Diode 1.3W BZX85C39V.....	£0.08
24-0006	Zener Diode 1.3W BZX85C47.....	£0.08
24-0000	Zener Diode 1.3W BZX85C56.....	£0.08
24-0002	Zener Diode 1.3W BZX85C68.....	£0.08
24-0004	Zener Diode 1.3W BZX85C75.....	£0.08

BZT03C SERIES 3.25W ZENER DIODES a hermetically sealed glass passivated zener diode housed in SOD-64 package (4.3mm dia. x 4.2mm)

CODE	TYPE	PRICE
24-0034	Zener Diode 3.25W BZT03C12 12V.....	£0.70
24-0036	Zener Diode 3.25W BZT03C15 15V.....	£0.70
24-0038	Zener Diode 3.25W BZT03C18 18V.....	£0.70
24-0040	Zener Diode 3.25W BZT03C20 20V.....	£0.70
24-0042	Zener Diode 3.25W BZT03C27 27V.....	£0.70
24-0044	Zener Diode 3.25W BZT03C30 30V.....	£0.70

CONTINUED OVER

24-0046	Zener Diode 3.25W BZT03C3636V.....	£0.70
24-0050	Zener Diode 3.25W BZT03C4747V.....	£0.70
24-0060	Zener Diode 3.25W BZT03C200 200V.....	£0.70
24-0062	Zener Diode 3.25W BZT03C270 270V.....	£0.70

5W GLASS PASSIVATED ZENER DIODE a range of 5W rated Zener diodes with a glass passivated junction, housed in a DO-201AE plastic package. Available in the most popular voltages with a coloured band that denotes the cathode. Operating/storage temperature range: -55°C to +175°C and maximum forward voltage drop 1.2V.



Technical Specification

Device	Vz (V)	@ Izt (mA)
1N5344B	8.2	50
1N5346B	9.1	150
1N5347B	10	125
1N5353B	16	75
1N5355B	18	65
1N5357B	20	65
1N5359B	24	50
1N5362B	28	50
1N5365B	36	30
1N5368B	47	25
1N5372B	62	20
1N5383B	150	8

CODE	TYPE	PRICE
24-5124	Glass Passivated Zener Diode 5W 1N5344B 8.2V..	£0.25
24-5126	Glass Passivated Zener Diode 5W 1N5346B 9.1V..	£0.25
24-5128	Glass Passivated Zener Diode 5W 1N5347B 10V..	£0.25
24-5134	Glass Passivated Zener Diode 5W 1N5353B 16V..	£0.25
24-5136	Glass Passivated Zener Diode 5W 1N5355B 18V..	£0.25
24-5138	Glass Passivated Zener Diode 5W 1N5357B 20V..	£0.25
24-5140	Glass Passivated Zener Diode 5W 1N5359B 24V..	£0.25
24-5142	Glass Passivated Zener Diode 5W 1N5362B 27V..	£0.25
24-5144	Glass Passivated Zener Diode 5W 1N5365B 30V..	£0.25
24-5146	Glass Passivated Zener Diode 5W 1N5368B 33V..	£0.25
24-5148	Glass Passivated Zener Diode 5W 1N5372B 36V..	£0.25
24-5150	Glass Passivated Zener Diode 5W 1N5383B 39V..	£0.25

1N5300B SERIES 5W ZENER DIODE a comprehensive series of 5W Zener diodes manufactured by ON Semiconductor and Semikron. With 5W Power dissipation and 5% Tolerance. Housed in an axial lead, transfer molded plastic package DO-201 (Semikron), 015AA (ON). The cathode is indicated by a polarity band.



CODE	TYPE	PRICE
24-0068	Zener Diode 5W 1N5341B 6.2V.....	£0.35
24-0070	Zener Diode 5W 1N5342B 6.8V.....	£0.35
24-0072	Zener Diode 5W 1N5344B 8.2V.....	£0.35
24-0074	Zener Diode 5W 1N5346B 9.1V.....	£0.35
24-0076	Zener Diode 5W 1N5347B 10V.....	£0.35
24-0078	Zener Diode 5W 1N5349B 12V.....	£0.35
24-0080	Zener Diode 5W 1N5352B 15V.....	£0.35
24-0082	Zener Diode 5W 1N5353B 16V.....	£0.35
24-0084	Zener Diode 5W 1N5355B 18V.....	£0.35
24-0086	Zener Diode 5W 1N5357B 20V.....	£0.35
24-0088	Zener Diode 5W 1N5359B 24V.....	£0.35
24-0092	Zener Diode 5W 1N5365B 36V.....	£0.35

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SQUIRES MODEL & CRAFT TOOLS

CURRENT REGULATING DIODES

CURRENT REGULATING DIODES a range of current regulating diodes (CRDs) which regulate current in the same way as a zener diode regulates voltage. Typical applications include: current regulation, limiting, biasing, stabilising LED brightness, and as a power supply voltage reference. Available in a range of current ratings in axial style. ATC Semitec types CRD-E series (axial). Sold Individually.

Technical specification

Pinch-off current(mA)	Current tolerance	Voltage range for constant current	Dynamic impedance	Order Code Axial
2.0	16%	2.3-100V	0.25MΩ	701-200
3.5	16%	3.2-100V	0.10MΩ	701-210
4.5	15%	3.7-100V	0.07MΩ	701-215
5.6	15%	4.5-100V	0.04MΩ	701-220

CODE	TYPE	PRICE
701-200	Current Regulating Diode 2.0mA.....	£1.25
701-210	Current Regulating Diode 3.5mA.....	£1.25
701-215	Current Regulating Diode 4.5mA.....	£1.25
701-220	Current Regulating Diode 5.6mA.....	£1.25

TRANSIENT SUPPRESSION DIODES

600W TRANSIENT VOLTAGE SUPPRESSION DIODES a range of DO-15 package glass passivated suppression diodes offering excellent clamping and low incremental surge resistance. Applications include protection of a wide range of electronic equipment. Unidirectional devices for use on DC based systems. 600W peak pulse power (5W steady state @ T_a +75°C).

Technical Specification

VRWM (V)	VBR MIN.(V)	VBR MAX.(V)	PPPM (W)	IPPM (A)	VCL (V)	No
5	6.4	7	500	54.3	9.2	SA5.0A
5.8	6.12	7.48	600	56	10.8	P6KE6V8A
5.8	6.45	7.14	600	57.1	10.5	P6KE6.8A
5.55	9.5	10.5	600	41.4	14.5	P6KE10A
10.2	11.4	12.6	600	35.9	16.7	P6KE12A
12.8	14.3	15.8	600	28.3	21.2	P6KE15A
15.3	17.1	18.9	600	23.8	25.2	P6KE18A
17.1	19	21	600	21.7	27.7	P6KE20A
20.5	22.8	25.2	600	19	33.2	P6KE24A
23.1	25.7	28.4	600	16	37.5	P6KE27A
25.6	28.5	31.5	600	14.5	41.4	P6KE30A
33.3	37.1	41	600	11.1	53.9	P6KE39A
40.2	44.7	44.7	600	9.3	64.8	P6KE47A
53	58.9	65.1	600	7.1	85	P6KE62A
58.1	64.6	71.4	600	6.5	92	P6KE68A
136	152	168	600	2.7	219	P6KE160A
171	190	210	600	2.2	274	P6KE200A

CODE	TYPE	PRICE
24-3620	Trans Volt Suppression Diode 500W SA5.0A.....	£0.99
24-5152	Trans Volt Suppression Diode 600W P6KE6V8A	£0.40
24-2700	Trans Volt Suppression Diode 600W P6KE6.8A..	£0.40
24-5440	Trans Volt Suppression Diode 600W P6KE6.8A..	£0.20
24-5216	Trans Volt Suppression Diode 600W P6KE10A...	£0.20
24-5218	Trans Volt Suppression Diode 600W P6KE12A...	£0.20
24-5220	Trans Volt Suppression Diode 600W P6KE15A...	£0.30
24-5222	Trans Volt Suppression Diode 600W P6KE18A...	£0.30
24-5224	Trans Volt Suppression Diode 600W P6KE20A...	£0.30
24-5437	Trans Volt Suppression Diode 600W P6KE24A...	£0.30
24-5226	Trans Volt Suppression Diode 600W P6KE27A...	£0.30
24-5228	Trans Volt Suppression Diode 600W P6KE30A...	£0.30
24-5232	Trans Volt Suppression Diode 600W P6KE39A...	£0.30
24-5234	Trans Volt Suppression Diode 600W P6KE47A...	£0.30
24-5236	Trans Volt Suppression Diode 600W P6KE62A...	£0.30
24-5442	Trans Volt Suppression Diode 600W P6KE68A...	£0.30
24-5238	Trans Volt Suppression Diode 600W P6KE160A.	£0.30
24-5242	Trans Volt Suppression Diode 600W P6KE200A.	£0.30

1500W TRANSIENT VOLTAGE SUPPRESSION DIODES a range of 1500W Peak Power Unidirectional glass passivated suppression diodes. The Diodes have a fast reponse time, and a low surge resistance. Designed to protect circuit components from Voltage surges and spikes.

Technical Specification

VRWM (V)	VBR MIN.(V)	VBR MAX.(V)	PPPM (W)	IPPM (A)	VCL (V)	Package	No
5.8	6.45	7.14	1500	143	10.8	DO-15	1.5KE6.8A
12.8	14.3	15.8	1500	70.8	21.2	DO-15	1.5KE15A
13.6	15.2	16.8	1500	66.7	25.5	DO-15	1.5KE16A
20.5	22.8	25.2	1500	45.2	33.2	DO-201AE	1.5KE24A
28.2	31.4	34.7	1500	32.8	45.7	DO-201AE	1.5KE33A

CODE	TYPE	PRICE
590-040	Trans Volt Suppression Diode 1500W 1.5KE6.8A	£0.99
13-0010	Trans Volt Suppression Diode 1500W 1.5KE15A	£0.99
24-3660	Trans Volt Suppression Diode 1500W 1.5KE16A	£0.99
24-5434	Trans Volt Suppression Diode 1500W 1.5KE24A	£0.99
24-5436	Trans Volt Suppression Diode 1500W 1.5KE33A	£0.99

SIGNAL DIODES

SILICON DIFFUSED SIGNAL DIODES a range of small signal silicon diodes. Sold Individually.

Technical Specification

V _{RRM}	I _F AV	V _F @I _F	Type	Application	Manfr Code	
max V	max mA	MaxV mA				
100	150	0.45	1	Silicon schottky	General purpose	BAT41
30	200	0.33	2	Silicon schottky	General purpose	BAT43
75	150	1	100	Silicon epitaxial	High Speed	BAW62
30	200	0.4	10	Silicon schottky	General purpose	BAT42
100	150	0.45	10	Silicon schottky	General purpose	BAT46
30	200	0.4	10	Silicon schottky	High Speed	BAT85
200	250	1.0	100	Silicon epitaxial	Switching	BAV21
75	150	1.0	10	Silicon diffused	High Speed	1N4148
100	75	1.0	10	Silicon diffused	High Speed	1N914

CODE	TYPE	PRICE
701-347	Diode Signal BAT41.....	£0.20
701-349	Diode Signal BAT42.....	£0.22
24-0142	Diode Signal BAW62.....	£0.22
24-0138	Diode Signal BAT43.....	£0.22
701-350	Diode Signal BAT46.....	£0.22
701-354	Diode Signal BAT85.....	£0.22
701-355	Diode Signal BAV21.....	£0.10
700-400	Diode Signal 1N4148.....	£0.10
700-410	Diode Signal 1N914.....	£0.10

DIODES

SILICON RECTIFIER DIODES a range of silicon diodes in a plastic case, 1A Rating 1N4000 Series. Sold Individually.

Technical Specification

	V _{RRM}	V _{RRM}
1N4001	50V	1N4004 400V
1N4002	100V	1N4006 800V
1N4003	200V	1N4005 600V
		1N4007 1000V

CODE	TYPE	PRICE
700-000	Diode Silicon Rectifier 1N4001.....	£0.06
700-005	Diode Silicon Rectifier 1N4001 8Pk.....	£0.45
700-010	Diode Silicon Rectifier 1N4002.....	£0.07
700-015	Diode Silicon Rectifier 1N4002 8Pk.....	£0.50
700-020	Diode Silicon Rectifier 1N4003.....	£0.07
700-030	Diode Silicon Rectifier 1N4004.....	£0.07
701-360	Diode Silicon Rectifier 1N4005.....	£0.07
700-040	Diode Silicon Rectifier 1N4006.....	£0.07
700-050	Diode Silicon Rectifier 1N4007.....	£0.07

SQUIRES ELECTRONIC COMPONENTS

SILICON RECTIFIER DIODES a range of silicon diodes in a plastic case, 3A Rating 1N5400 Series. Sold Individually.

Technical Specification

	V _{RRM}		V _{RRM}
1N5400	100V	1N5406	600V
1N5402	200V	1N5408	1000V
1N5404	400V		

CODE	TYPE	PRICE
700-100	Diode Silicon Rectifier 1N5401.....	£0.12
700-110	Diode Silicon Rectifier 1N5402.....	£0.12
700-120	Diode Silicon Rectifier 1N5404.....	£0.12
700-130	Diode Silicon Rectifier 1N5406.....	£0.12
700-140	Diode Silicon Rectifier 1N5408.....	£0.12

ULTRAFAST SILICON RECTIFIER DIODES a range of miniature ultrafast recovery silicon diodes rating at 1A suitable for use in switched mode power supplies and similar applications. Maximum reverse recovery time is just 50ns. UF4000 Series. Sold Individually.

Technical Specification

	V _{RRM}		V _{RRM}
UF4001	50V	UF4006	800V
UF4002	100V	UF4007	1000V
UF4004	400V		

CODE	TYPE	PRICE
700-200	Diode Silicon Rectifier UF4001.....	£0.10
700-210	Diode Silicon Rectifier UF4002.....	£0.10
700-220	Diode Silicon Rectifier UF4004.....	£0.10
700-230	Diode Silicon Rectifier UF4006.....	£0.10
700-240	Diode Silicon Rectifier UF4007.....	£0.10

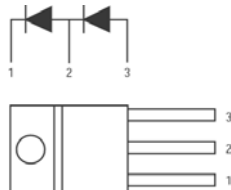
ULTRAFAST SILICON RECTIFIER DIODES a range of ultrafast recovery silicon diodes rating at 3A suitable for use in switched mode power supplies and similar applications. Maximum reverse recovery time is just 50ns. UF5400 Series. Sold Individually.

Technical Specification

	V _{RRM}		V _{RRM}
UF5401	50V	UF5406	600V
UF5402	200V	UF5408	1000V
UF5404	400V		

CODE	TYPE	PRICE
700-300	Diode Silicon Rectifier UF5401.....	£0.40
700-310	Diode Silicon Rectifier UF5402.....	£0.40
700-320	Diode Silicon Rectifier UF5404.....	£0.40
700-330	Diode Silicon Rectifier UF5406.....	£0.40
700-340	Diode Silicon Rectifier UF5408.....	£0.40

STTH806TTI 600V ULTRAFAST BOOST DIODE The STTH806TTI is an ultra high performance 600V diode comprising of two 300V diodes connected in series, and designed for high DI/DT operation as boost diodes in continuous mode power factor correctors and 'hard' switching conditions. Sold individually.



Technical specification

Repetitive peak reverse voltage	600V
RMS forward current	14A
Surge non repetitive forward current	80A
Forward voltage drop	2.6V

CODE	TYPE	PRICE
701-504	STTH806TTI 600V Ultrafast Boost Diode.....	£3.99

POWER DIODES

SCHOTTKY POWER DIODES Schottky barrier power diodes designed for high efficiency rectification in switch power supplies, regulators, etc. Sold individually.

DO-41: 5.2 x 2.7mm
DO-201AD: 9.5 x 5.6mm

59-04: 6.6 x 3.1mm
267-03: 9.7 x 5.3mm

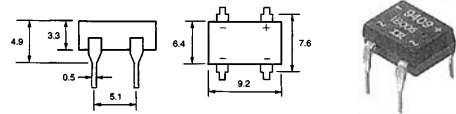
Technical Specification

IF(av)	VRMM	VF@IF	IFSM	Package	Device
max A	max V	V	A	A	
1.0	30	0.50	1	40	DO-41 SB130
1.0	40	0.45	1	25	DO-41 1N5817
1.0	40	0.50	1	40	DO-41 SB140
1.0	40	0.55	1	25	DO-41 1N5819
1.0	60	0.65	1	50	DO-41 SB160
1.0	60	0.5	1	40	DO-41 STPS1L60
1.1	60	0.53	1	150	DO-41 11DQ06
2.0	100	0.65	2	50	DO-41 STPS2H100
3.0	30	0.50	3	80	DO-201AD SB330
3.0	40	0.475	3	80	DO-201AD 1N5820
3.0	40	0.475	10	80	DO-201AD 1N5821
3.0	50	0.74	3	80	DO-201AD SB350

CODE	TYPE	PRICE
701-398	Schottky Power Diode SB130.....	£0.75
24-0146	Schottky Power Diode 1N5817.....	£0.75
701-400	Schottky Power Diode SB140.....	£0.75
24-2566	Schottky Power Diode 1N5819.....	£0.75
24-0148	Schottky Power Diode SB160.....	£0.75
21-0150	Schottky Power Diode STPS1L60.....	£0.75
24-0150	Schottky Power Diode 11DQ06.....	£0.75
24-3670	Schottky Power Diode STPS2H100.....	£0.75
701-402	Schottky Power Diode SB330.....	£0.75
24-0152	Schottky Power Diode 1N5820.....	£0.75
21-0154	Schottky Power Diode 1N5821.....	£0.75
24-0154	Schottky Power Diode SB350.....	£0.75

BRIDGE RECTIFIERS

1A DIL BRIDGE RECTIFIER a range of miniature 1A bridge rectifiers housed in a DIL package.



CODE	TYPE	PRICE
700-899	Bridge Rectifier 1A DIL DB02 100V.....	£0.50
700-900	Bridge Rectifier 1A DIL 1B02 200V.....	£0.50
700-901	Bridge Rectifier 1A DIL 1B04 400V.....	£0.50
700-903	Bridge Rectifier 1A DIL 1B06 600V.....	£0.50
700-905	Bridge Rectifier 1A DIL 1B08 800V.....	£0.50

1.5A BRIDGE RECTIFIERS miniature 1.5A plastic encapsulated WOO Series rectifiers for direct mounting to PCB's.

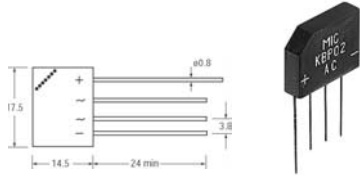


CODE	TYPE	PRICE
700-920	Bridge Rectifier 1.5A WOO5 50V.....	£0.25
700-925	Bridge Rectifier 1.5A WO2 200V.....	£0.25
700-930	Bridge Rectifier 1.5A WO4 400V.....	£0.30
700-935	Bridge Rectifier 1.5A WO6 600V.....	£0.30
700-940	Bridge Rectifier 1.5A WO8 800V.....	£0.35

SQUIRES MODEL & CRAFT TOOLS

2A BRIDGE RECTIFIERS miniature 2A in-line configuration compact bridge rectifiers for direct mounting to PCB's.

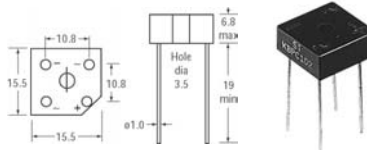
Dimensions
14.5mm High
17.5mm Wide



CODE	TYPE	PRICE
700-950	Bridge Rectifier Inline 2A 2KBP02 200V.....	£0.85
700-955	Bridge Rectifier Inline 2A 2KBP04 400V.....	£0.90

BRIDGE RECTIFIERS miniature 3A plastic encapsulated bridge rectifiers for direct mounting to PCB's.

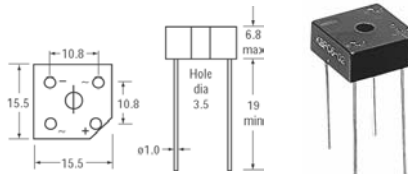
Dimensions
6.8mm High
15.5mm Square



CODE	TYPE	PRICE
700-970	Bridge Rectifier 3A KBPC102 200V.....	£0.70
700-975	Bridge Rectifier 3A KBPC104 400V.....	£0.80

BRIDGE RECTIFIERS miniature 6A plastic encapsulated bridge rectifiers for direct mounting to PCB's.

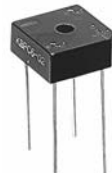
Dimensions
6.8mm High
15.5mm Square



CODE	TYPE	PRICE
700-980	Bridge Rectifier 6A KBPC602 200V.....	£1.25
700-985	Bridge Rectifier 6A KBPC608 800V.....	£1.25

BRIDGE RECTIFIERS miniature 8A plastic encapsulated bridge rectifiers for direct mounting to PCB's.

Dimensions
7.5mm High
19.6mm Square



CODE	TYPE	PRICE
24-2894	Bridge Rectifier 8A KBPC801 100V.....	£1.25
24-2896	Bridge Rectifier 8A KBPC808 800V.....	£1.25

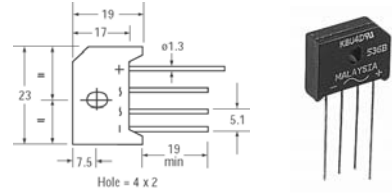
4A SIL BRIDGE RECTIFIER a range of 4A rated SIL bridge rectifiers available in the most popular voltages. It has a glass passivated junction and polarity symbols marked are on the plastic package. 150A peak forward current and 1V max. forward voltage drop. Operating temperature range is -55°C to +150°C. Dimensions 22.3 x 18.7mm, 5.33mm pitch. Rated at UL 94V-0.



CODE	TYPE	PRICE
24-2950	SIL Bridge Rectifier 4A 100V.....	£0.60
24-2909	SIL Bridge Rectifier 4A 200V.....	£0.60
24-2913	SIL Bridge Rectifier 4A 1000V.....	£0.60

4A/8A IN LINE BRIDGE RECTIFIERS A range of miniature 4A and 8A in line configuration bridge rectifiers.

Dimensions
19mm High
23mm Wide



CODE	TYPE	PRICE
701-506	In Line Bridge Rectifier 4A KBU4D 200V.....	£1.75
701-508	In Line Bridge Rectifier 4A KBU4J 600V.....	£2.25
701-510	In Line Bridge Rectifier 8A KBU8D 200V.....	£2.50
701-512	In Line Bridge Rectifier 8A KBU8K 800V.....	£2.50

6A SIL BRIDGE RECTIFIER a range of 6A rated SIL bridge rectifiers available in the most popular voltages. It has a glass passivated junction and polarity symbols marked are on the plastic package. 175A peak forward current and 1V max. forward voltage drop. Operating temperature range is -55°C to +150°C. Dimensions 22.3 x 18.7mm, 5.33mm pitch. Rated at UL 94V-0.



CODE	TYPE	VRRM	PRICE
47-2952	SIL Bridge Rectifier 6A 100V.....		£0.35
47-2952	SIL Bridge Rectifier 6A 200V.....		£0.35

8A SIL BRIDGE RECTIFIER a range of 8A rated SIL bridge rectifiers available in the most popular voltages. It has a glass passivated junction and polarity symbols marked are on the plastic package. 200A peak forward current and 1V max. forward voltage drop. Operating temperature range is -55°C to +150°C. Dimensions 22.3 x 18.7mm, 5.33mm pitch. Rated at UL 94V-0.



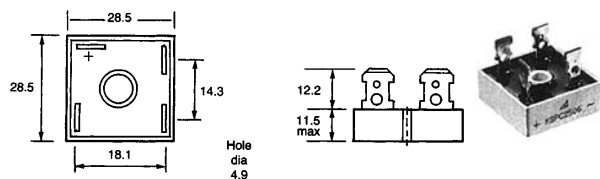
CODE	TYPE	VRRM	PRICE
47-2956	SIL Bridge Rectifier 8A 50V.....		£1.40
47-2958	SIL Bridge Rectifier 8A 400V.....		£1.40
47-2960	SIL Bridge Rectifier 8A 600V.....		£1.40

15A BRIDGE RECTIFIER a 15A metal clad bridge rectifier with a single hole fixing. 28mm square and 11mm high. 15A rated and a UL 94V-0 case.



CODE	TYPE	PRICE
24-2796	Bridge Rectifier 15A 200V.....	£1.99

BRIDGE RECTIFIERS a range of metal clad 25A and 35A bridge rectifiers. Single hole fixing and solder tag connections.

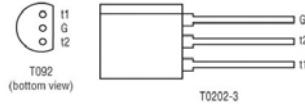


CODE	TYPE	PRICE
700-990	Bridge Rectifier 25A KBPC2502 200V.....	£2.75
700-995	Bridge Rectifier 25A KBPC2506 600V.....	£2.99
701-514	35A Bridge Rectifier KBPC3502 200V.....	£3.50
701-516	35A Bridge Rectifier KBPC3506 600V.....	£3.99

SQUIRES ELECTRONIC COMPONENTS

TRIACS

GENERAL PURPOSE TRIAC a Triac suitable for general purpose AC switching applications. Available with different gate sensitivities. Applications include light and fan speed control, supplied in TO-92 or TO-202-3 packages.



Technical Specification

IT(RMS)	ITSM	VDRM	VG _T	I _{GT} mA				Package
A	A	V	V	t ₂ + g+	t ₂ + g-	t ₂ - g-	t ₂ - g+	
0.8	8	600	1.5	3	3	3	5	TO-92
0.8	8	600	1.5	5	5	5	7	TO-92
4	20	600	1.5	5	5	5	5	TO-202-3

CODE	TYPE	PRICE
24-3406	TRIAC 1A 600V TO-92 Z0103MA 5MA.....	£0.60
24-3410	TRIAC 1A 600V TO-92 Z0107MA 7MA.....	£0.60
24-3402	TRIAC 4A 600V TO-92 Z0405MF.....	£0.60

TRIACS a range of non-isolated TO220 packaged triacs from Philips featuring low voltage gate requirements. Sold individually.



Technical Specification

Device	ITrms	VDRM	VG _T	t ₂ +G+	t ₂ +G-	t ₂ -G-	t ₂ -G+	ITSM
BT136-600 4A	600	1.5	35	35	35	70	25	
BT139-600 16A	600	1.5	35	35	35	70	115	

CODE	TYPE	PRICE
701-015	Triac 4A 600v BT136-600.....	£0.99
701-016	Triac 4A 600v TIC206M.....	£0.99
701-017	Triac 8A 600v BT137-600.....	£0.99
701-025	Triac 16A 600v BT139-600.....	£1.50

ISOLATED TAB TRIACS A range of power triacs in which the mounting tab is electrically isolated to 2500V rms. Insulating hardware is therefore not required when mounting these triacs onto heatsinks. Supplied in T0220AB or T0218 plastic packages.



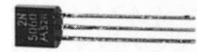
Technical Specification

Type	case	IT rms	V _{DRM}	VG _T	t ₂ +G+	t ₂ +G-	t ₂ -G-	t ₂ -G+	I _{GT} MA	I _{TSM} A
Standard										
BTA08-600B	T0220	8A	600V	1.5V	50	50	50	100	80	
BTA16-600B	T0220	16A	600V	1.5V	50	50	50	100	160	
BTA26-600B	T0218	25A	600V	1.5V	50	50	50	100	250	
Snubberless 50mA gate sensitivity										
I _{GT} MA										
Type	case	IT rms	V _{DRM}	VG _T	t ₂ +G+	t ₂ +G-	t ₂ -G-	t ₂ -G+	I _{TSM}	
BTA12-600BW	T0220	12A	600V	1.5V	50	50	50	-	126	
Snubberless 35mA gate sensitivity										
BTA16-600CW	T0220	16A	600V	1.5V	35	35	35	-	160	

CODE	TYPE	PRICE
23-3408	Isolated Tab Triacs BTA06-600B.....	£1.75
701-405	Isolated Tab Triacs BTA08-600B.....	£1.75
24-0156	Isolated Tab Triacs BTA12-600B.....	£1.75
701-407	Isolated Tab Triacs BTA16-600B.....	£1.75
701-409	Isolated Tab Triacs BTA26-600B.....	£5.99
24-0158	Isolated Tab Triacs BTA41-600B.....	£5.99
24-0160	Isolated Tab Triacs BTA06-600BW.....	£1.75
701-406	Isolated Tab Triacs BTA12-600BW.....	£1.75
24-0164	Isolated Tab Triacs BTA26-600BW.....	£5.99
701-408	Isolated Tab Triacs BTA16-600CW.....	£1.99

THYRISTORS

THYRISTORS a range of miniature TO92 package thyristors for low current/voltage applications..



Technical Specification

Device	V _R RM	I _T	I _{GT}
2N5060	30	0.8A	200µA
2N5061	60	0.8A	200µA

CODE	TYPE	PRICE
701-160	Thyristor 30v 0.8A 2N5060.....	£0.50
701-165	Thyristor 60v 0.8A 2N5061.....	£0.50

THYRISTORS a range of TO220 package thyristors. Ideal for use in light and heater control, power supplies etc.



Technical Specification

Device	V _R RM	I _T	V _{GT}	I _{GT}
TIC106D	400	4A	0.8V	0.2mA
TIC116D	400	8A	1.5V	20 mA
TIC126D	400	12A	1.5V	20 mA

CODE	TYPE	PRICE
24-0166	Thyristor 200v 25A TYN225.....	£1.99
24-3330	Thyristor 400v 4A C106D1.....	£0.80
701-170	Thyristor 400v 4A C106D.....	£0.80
24-3277	Thyristor 400v 8A FS0831DH.....	£0.80
24-0170	Thyristor 600v 4A C106M1G.....	£0.80
24-3204	Thyristor 800v 12A BT151-800R.....	£1.25
24-0176	Thyristor 800v 25A TYN825RG.....	£2.99
24-0178	Thyristor 800v 25A 2N6509G.....	£1.50
24-5082	Thyristor 800v 25A FS2510NH.....	£1.75

AUDIO TRANSISTORS

COMPLEMENTARY HIGH POWER AUDIO TRANSISTORS A range of complementary high power transistors intended for audio applications, but also suitable for general switching type applications. All types have a wideSOA (safe operating area), the Sanyo devices feature built in ballast resistors for this reason, and can be used in the most demanding applications. The Sanken devices feature a multi-emitter construction for excellent high frequency response. The Sanken MT200 package features two hole fixing to ensure good thermal contact with the heatsink. Devices 2SC4388 and 2SA1673 have an isolated package for ease of assembly requiring no heatsink compound.



Technical Specification

Device	Type	Case	V _{CB}	V _{CE}	V _{EB}	I _C	h _{FE}	f _r	P _{tot}
2SA1943**	PNP	TO3PBL230	230	5	15A	80@1A	30MHz	150W	
2SA1295	PNP	MT200	230	230	5	17A	40@5A	45MHz 200W	

* = Sanyo devices
** = Toshiba devices

CODE	TYPE	PRICE
710-968	Audio Transistor 2SA1943.....	£4.99
710-976	Audio Transistor 2SA1295.....	£6.99

SQUIRES MODEL & CRAFT TOOLS

TRANSISTORS

Manufacturers Key

CDIL Philips	Continental Devices Philips Semiconductor	Motor Sams	Motorola Samsung	NSC SGS	National Semiconductor SGS-Thompson	Zetex	Zetex	Application					
CODE	TYPE	PRICE £	Manfr.	Pol/Mat	Case	Vcb (max)	Vce (max)	Veb (max)	Ic mA (max)	Ptot mW (max)	hFE(min) @ Ic (mA)	fT(min) MHz	Application
710-015	BC107	0.35	CDIL	NS	T018	50	45	6	100	300	125@2	300	Gen. purpose power
710-020	BC107B	0.35	Philips	NS	T018	50	45	6	100	300	330@2	300	Gen. purpose power
710-025	BC108	0.40	CDIL	NS	T018	30	20	5	100	300	125@2	300	Gen. purpose power
710-030	BC108B	0.40	CDIL	NS	T018	30	20	5	100	300	330@2	300	Gen. purpose power
710-035	BC108C	0.40	CDIL	NS	T018	30	20	5	100	300	600@2	300	Low noise audio
710-040	BC109	0.40	CDIL	NS	T018	30	20	5	100	300	180@2	150	Low noise audio
710-045	BC109C	0.40	CDIL	NS	T039	30	20	5	100	300	420@2	150	Low noise audio
710-055	BC177	0.35	-	PS	T018	45	45	5	100	300	70@2	130	Gen. purpose audio
710-060	BC178	0.35	CDIL	PS	T018	20	20	5	100	300	240@2	200	Gen. purpose audio
710-065	BC179	0.40	CDIL	PS	T018	20	20	5	200	300	500@2	150	Gen. purpose audio
710-075	BC182L	0.12	CDIL	NS	T092	60	50	5	200	300	500@2	150	Gen. purpose audio
710-080	BC183L	0.12	CDIL	NS	T092	45	30	5	200	300	900@2	150	Gen. purpose audio
710-085	BC184	0.12	CDIL	NS	T092C	45	30	5	200	300	900@2	150	Gen. purpose audio
710-090	BC184L	0.12	CDIL	NS	T092	45	30	5	200	300	900@2	150	Gen. purpose audio
710-095	BC212	0.12	CDIL	PS	T092	60	50	5	200	300	100@2	200	Gen. purpose
710-100	BC212L	0.12	CDIL	PS	T092C	45	30	5	200	300	100@2	200	Gen. purpose
710-105	BC237B	0.12	CDIL	NS	X10	50	45	5	100	350	120@2	200	Gen. purpose
710-110	BC238B	0.12	CDIL	NS	X10	30	20	5	100	350	120@2	240	Gen. purpose
701-668	BC327-25	0.12	-	-	T092C	50	45	5	500	625	160@100	80	
701-668	BC327-25	0.12	-	-	T092C	50	45	5	500	625	160@100	80	
710-120	BC337	0.12	CDIL	NS	T092C	50	45	5	800	360	100@100	60	Gen. purpose audio
24-0180	BC337-16	0.12	CDIL	NS	T092C	45	50	5	800	625	100@100	210	Gen. purpose audio
701-660	BC337-25	0.12	Philips	-	T092C	50	45	5	500	625	160@100	100	
701-662	BC337-40	0.12	Philips	-	T092C	50	45	5	500	625	250@100	100	
710-130	BC461	0.70	-	PS	T039	75	60	5	2A	1W	40@500	50	Gen. purpose audio
710-155	BC548B	0.10	CDIL	NS	T092C	30	30	5	100	500	125@2	300	Gen. purpose
710-160	BC549B	0.10	CDIL	NS	T092C	30	30	5	100	500	240@2	200	Gen. purpose
701-664	BC549C	0.12	Philips	-	T092	30	30	5	100	500	420@2	100	
710-165	BC557B	0.12	CDIL	PS	T092C	50	45	5	100	500	140@2	150	Gen. purpose
710-170	BC558B	0.14	CDIL	PS	T092C	30	30	5	100	500	75@2	150	Gen. purpose
701-674	BC559C	0.14	Philips	-	T092	30	30	5	100	500	420@2	100	
710-175	BC635	0.20	CDIL	N	T092	45	45	5	1A	-	40@150	130	Low frequency amp
710-180	BC636	0.20	CDIL	P	T092	45	45	5	1A	1000	40@150	50	Low frequency amp
710-190	BC639	0.20	CDIL	N	T092	800	80	5	1A	-	40@150	130	Low frequency amp
710-195	BC640	0.20	CDIL	P	T092	800	80	5	1A	-	40@150	130	Low frequency amp
710-205	BCY70	0.50	-	PS	T018	50	40	5	200	350	50@2	250	Gen. purpose audio
701-681	BD135	0.50	CDIL	PS	T0126	45	45	5	1.5A	12.5W	40@150	-	Gen. purpose audio
710-230	BD136	0.50	CDIL	PS	T0126	45	45	5	1A	12W	40@150	50	Gen. purpose audio
710-235	BD139	0.50	CDIL	NS	T0126	80	80	5	1A	12W	40@150	50	Audio high voltage
710-240	BD140	0.50	Philips	PS	T0126	80	80	5	1A	12W	40@150	50	Audio high voltage
701-686	BD238	0.80	ST	-	SOT32	100	80	5	2A	25W	40@150	-	
701-688	BD244C	0.99	FSC	-	T0220	100	100	5	6A	65W	30@300	-	
701-690	BD436	0.55	ST	-	SOT32	32	32	5	4A	36W	40@10	-	
710-245	BD437	0.80	SGS	NS	T0126	45	45	1	4A	36W	40@2A	7	Power switch
710-250	BD438	0.80	SGS	PS	T0126	45	45	1	4A	36W	40@2A	7	Comp. to BD437
710-697	BD677	0.50	ST	NS	SOT-32	60	60	5	6A	40W	750@1.5A	-	Power darlington
701-736	BD678	0.50	ST	NS	SOT-32	100	100	5	4A	40W	750@2A	-	Power darlington
710-255	BD679	0.50	SGS	NS	T0126	100	80	3	6A	40W	2200@500	-	Power darlington
710-260	BD680	0.50	Sams	PS	T0126	100	80	3	6A	40W	2200@500	-	Comp. to BD679
710-236	BD911	0.65	ST	PS	T0220	100	100	5	15A	90W	15@5mA	-	Comp. to BD679
710-265	BDW93C	0.95	SGS	NS	TOP66	100	100	3	12A	80W	750/20K@5A	-	Power darlington
710-270	BDW94C	0.95	SGS	PS	TOP66	100	100	3	12A	80W	750/20K@5A	-	Comp. to BDW93C
701-694	BDX33C	1.50	ST	-	T0220	100	100	2.5	10A	70	750@3A	-	
24-0386	BF199	0.30	NXP	NS	T092	40	25	4	25	500	38@7	550	Gen. purpose audio
710-280	BFX85	0.60	CDIL	NS	T05	100	60	6	1A	800	70@150	50	Audio high voltage
710-290	BFY50	0.60	CDIL	NS	T05	80	35	6	1A	800	30@150	60	Gen. purpose audio
710-300	BFY51	0.60	CDIL	NS	T05	60	30	6	1A	800	40@150	50	Gen. purpose audio
24-0188	BYF52	0.70	CDIL	N	X11	20	20	6	1A	0.8W	60@150	50	High gain med. power
710-335	MJ2955	1.25	SGS	PS	T03	100	60	7	15A	150W	5@10A	4	Gen. purpose audio
710-340	MJE340	0.70	CDIL	NS	T0126	300	300	3	500	20W	30@50	10	Audio high voltage
24-0406	MJ11015	3.50	ONS	PS	T0-3	120	120	5	30	2000W	100@20	4	Comp. to
710-345	MJE350	0.70	CDIL	PS	T0126	300	300	3	500	20W	30@50	10	Comp. to MJE340
710-350	MPSA13	0.20	CDIL	NS	T092B	30	30	5	500	625	5000@10mA	-	125 Darlington switch
710-355	MPSA42	0.20	CDIL	NS	T092B	300	300	10	500	625	40@30	50	Gen. purpose high volt
701-666	MPSA63	0.20	FAIR	-	T092B	30	30	-	100	350	20000	@100	
710-360	MPSA92	0.20	CDIL	PS	T092B	300	300	10	500	625	40@30	50	Comp. to MPSA42
710-365	TIP29A	0.65	-	NS	TOP66	60	60	5	1A	30W	40@200	3	Gen. purpose audio
710-370	TIP29C	0.75	Sams	NS	TOP66	100	100	5	1A	30W	40@200	3	Gen. purpose audio
710-380	TIP31A	0.65	CDIL	NS	TOP66	60	60	5	3A	40W	20@1A	3	Gen. purpose audio
710-385	TIP31C	0.75	CDIL	NS	TOP66	100	100	5	3A	40W	20@1A	3	Gen. purpose audio
710-390	TIP32A	0.65	Sams	PS	TOP66	60	60	5	3A	40W	20@1A	3	Gen. purpose audio
710-395	TIP32C	0.85	CDIL	PS	TOP66	100	100	5	3A	40W	20@1A	3	Gen. purpose audio

SQUIRES ELECTRONIC COMPONENTS

CODE	TYPE	PRICE £	Manfr.	Pol/Mat	Case	Vcb (max)	Vce (max)	Veb (max)	Ic mA (max)	Ptot mW (max)	hFE(min) @ Ic (mA)	fT(min) MHz	Application
710-400	TIP41A	0.95	CDIL	NS	T0P66	60	60	5	6A	65W	15@3A	3	Gen. purpose audio
701-682	TIP41C	0.95	FSC		T0220	100	100	5	6A	65W	30@300mA		3
710-405	TIP42A	0.75	Sams	PS	T0P66	60	60	5	6A	65W	15@3A	3	Gen. purpose audio
701-692	TIP42C	0.99	FSC		T0220	100	100	5	6A	65W	15@3A	3	
710-410	TIP47	0.80	Sams	NS	T0P66	350	250	10	1A	40W	30@30	10	High voltage
710-415	TIP120	0.65	CDIL	NS	T0P66	60	60	5	5A	60W	1000@3A	-	Darlington audio
710-420	TIP121	0.65	CDIL	NS	T0P66	80	80	5	5A	60W	1000@3A	-	Darlington audio
710-425	TIP122	0.75	CDIL	NS	T0P66	100	100	5	5A	60W	1000@3A	-	Darlington audio
710-430	TIP125	0.65	CDIL	PS	T0P66	60	60	5	5A	65W	1000@3A	-	Darlington audio
710-435	TIP126	0.65	CDIL	PS	T0P66	80	80	5	5A	65W	1000@3A	-	Darlington audio
710-440	TIP127	0.65	CDIL	PS	T0P66	100	100	5	5A	65W	1000@3A	-	Darlington audio
710-445	TIP141	1.75	SGS	NS	T0P3	80	80	5	10A	125W	1000@5A	-	Darlington audio
710-450	TIP142	1.75	SGS	NS	T0P3	100	100	5	10A	125W	1000@5A	-	Darlington audio
710-455	TIP147	0.40	SGS	PS	T0P3	100	100	5	10A	125W	1000@5A	-	Comp. to TIP142
710-460	TIP2955	1.45	SGS	PS	T0P3	100	60	7	15A	90W	20@4A	3	Audio high voltage
710-465	TIP3055	1.30	SGS	NS	T0P3	100	60	7	15A	90W	20@4A	3	Comp. to TIP2955
710-470	ZTX300	0.25	-	NS	T092	25	25	5	500	300	50/300	150	Gen. purpose audio
710-480	ZTX450	0.45	Zetex	NS	X11	60	45	10	150	1W	100@150	150	Gen. purpose audio
710-485	ZTX451	0.55	Zetex	N	X11	80	60	5	1A	1W	150@150	150	Comp. to ZTX551
710-490	ZTX453	0.55	Zetex	NS	X11	120	100	10	150	2W	40@150	150	Gen. purpose audio
710-912	ZTX457	0.45	Zetex		E LINE	300	300			1W	50@0.05	75	
710-930	ZTX549	0.40	Zetex		E LINE	30	30	-		1	100@1	100	
710-505	ZTX550	0.60	Zetex	PS	X11	60	45	10	150	1W	100@150	150	Comp. to ZTX450
710-510	ZTX551	0.60	Zetex	P	X11	80	60	5	1A	1W	150@150	150	Comp. to ZTX451
710-920	ZTX558	0.40	Zetex		E LINE	400	400			1W	100@50	50	
710-525	ZTX605	0.80	Zetex	N	X11	140	120	10	1A	1W	5000@500	150	Med. power darlington
710-928	ZTX614	0.50	Zetex		E LINE	100	100	5	800	1W	10K@500	-	
710-535	ZTX651	0.70	Zetex	NS	X11	80	60	2	2A	1W	100@500	150	High current
710-540	ZTX653	0.75	Zetex	NS	X11	120	100	2	2A	1W	100@500	150	High current
710-545	ZTX689B	0.70	Zetex	N	X11	20	20	5	3A	1.5W	400@2A	150	High gain med. power
710-550	ZTX690B	0.75	Zetex	N	X11	45	45	5	2A	1.5W	400@1A	150	High gain med. power
710-555	ZTX705	0.80	Zetex	P	X11	140	120	10	1A	1W	3000@1A	160	Med. power darlington
710-565	ZTX751	0.75	Zetex	PS	X11	80	60	2	2A	1W	100@500	150	Comp. to ZTX651
710-570	ZTX753	0.75	Zetex	PS	X11	120	100	2	2A	1W	100@500	150	Comp. to ZTX653
710-580	ZTX790A	0.75	Zetex	P	X11	50	40	5	2A	1W	250@500	100	High gain med. power
710-585	ZTX851	0.90	Zetex	N	X11	150	60	6	5A	1.6W	200@2A	130	High curr. med. power
710-590	ZTX853	0.90	Zetex	N	X11	200	100	6	4A	1.6W	200@1A	130	High curr. med. power
710-598	ZTX1149A	0.95	Zetex		X11	30	25	5	3A	1W	195@2A	135	Med. power
710-610	ZTX1053A	0.90	Zetex	N	X11	150	75	3	1A	1W	450@1A	440	High gain med. power
710-615	2N2222A	0.45	CDIL	NS	T018	75	40	6	800	500	100@150	300	Gen. purpose R.F.
710-630	2N2905A	0.60	-	PS	T05	60	60	5	600	600	100@150	200	Gen. purpose audio
710-635	2N2907A	0.45	Motor	PS	T018	60	60	5	600	400	100@150	200	Gen. purpose audio
710-640	2N3053	0.55	CDIL	NS	T05	60	40	5	700	1W	50@150	100	General purpose
710-645	2N3055	1.50	CDIL	NS	T03	100	60	4V	15A	115W	20-70@4A	-	High power epitaxial
710-655	2N3702	0.15	CDIL	PS	T092	40	25	5	200	360	60@50	100	Gen. purpose audio
710-665	2N3704	0.15	CDIL	NS	T092	50	30	5	800	360	300@50	100	Gen. purpose audio
710-670	2N3705	0.15	CDIL	NS	T092	50	30	5	800	625	150@50	100	Gen. purpose audio
710-466	2N3773	2.50	CDIL	NS	T0-3	160	140	7	16	150	15@60	100	Gen. purpose audio
710-468	2SC3264	6.99	SANYO	NS	MT-200	230	230	5	17	200	50@5	100	Gen. purpose audio
710-680	2N3904	0.12	CDIL	NS	T092B	60	40	6	200	310	100@10	250	Audio low noise
710-685	2N3906	0.12	CDIL	PS	T092B	40	40	5	200	310	100@10	250	Audio low noise
710-690	2N4401	0.20	-	N	T092B	40	40	-	600	625	255@150	-	High speed switching
710-695	2N4403	0.20	NSC	P	T092B	40	40	-	600	625	100@150	200	Low frequency amplifier

FIELD EFFECT TRANSISTORS

CODE	TYPE	PRICE £	Manfr.	Pol/Mat	Case	Vds (max)	Vgs (max)	Vp (max)	Id mA (max)	Ptot mW (max)	GFS (min)	Cis (max)
710-990	J108	0.60	Fairchild		T092	25	25	25	10	625	-	15
701-758	J112	0.70	Fairchild	ND	T092	35	35	35	50	625	-	12
24-0230	NXP	0.70	Fairchild	ND	T092	30	30	-	-	350	-	12
710-805	2N3819	0.60	NSC	ND	T092	25	25	8	-	360	2-6.5	8
24-0232	2N3820	0.60	NSC	ND	T092	20	20	8	-	360	2-6.5	8
710-994	2N5457	0.60	Fairchild	ND	T092	25	25	6	10	350	-	10
24-0410	2N5458	0.60	Fairchild	ND	T092	25	25	6	10	350	-	10
24-0386	2N5460	0.60	Fairchild	ND	T092	25	25	6	10	350	-	10

SQUIRES MODEL & CRAFT TOOLS

PROGRAMMABLE UNIUNCTION TRANSISTOR

PROGRAMMABLE UNIUNCTION TRANSISTOR similar to the Thyristor as in has four P-N layers. With an Snode and Cathode connection to the first and last layer and a gate connected to one of the inner layers. Applications include Thyristor Triggering. TO-92 Package.

Technical specification

	Case	Max point cur @ $R_G=10K$	Min valley curr @ $R_G=10K$	Pulsed output Voltage V_o	Max DC Anode current
2N6027	T092B	5 μ A	70 μ A	6V min	150mA
2N6028	T092B	1 μ A	25 μ A	6V min	150mA

CODE	TYPE	PRICE
701-518	Programmable Unijunction Transistor 2N6027.....	£0.60
24-0226	Programmable Unijunction Transistor 2N6028.....	£0.60

MOSFET TRANSISTORS

LOW POWER MOSFET TRANSISTORS a selection of low power MOSFET Transistors. Available in N and P Channel devices.



Technical specification

VDS V	N chan	RDS (on) Ω	ID cont @25°C A	IDM pulsed A	PD @25°C W	Pack	Device
60	N	5.00	0.200	0.50	0.400	T092b	2N7000
60	N	5.00	0.270	3.00	0.625	E Line	ZVN3306A
60	N	2.00	0.450	8.00	0.700	E Line	ZVN2106A
60	N	5.00	0.500	1.20	0.830	T092a	BS170
60	N	1.50	0.600	8.00	0.700	E Line	ZVN4206A*
60	N	0.45	1.100	15.00	0.850	E line	ZVN4306A*
100	N	1.80	0.450	6.00	0.700	E Line	ZVN4210A
100	N	0.65	0.900	12.00	0.850	E Line	ZVN4310A*
200	N	28.00	0.250	0.50	0.350	T092a	BS107
60	P	14.00	0.160	1.60	0.625	E Line	ZVP3306A
60	P	5.00	0.280	4.00	0.700	E Line	ZVP2106A
100	P	8.00	0.230	3.00	0.700	E Line	ZVP2110A
200	P	25.00	0.120	1.20	0.700	E Line	ZVP2120A

*Logic level device with optimised design for 5V drive

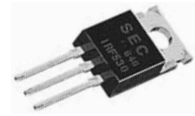
CODE	TYPE	PRICE
701-556	Low Power Mosfet Transistor 2N7000.....	£0.35
701-536	Low Power Mosfet Transistor ZVN3306A.....	£0.55
701-532	Low Power Mosfet Transistor ZVN2106.....	£0.75
701-520	Low Power Mosfet Transistor BS107.....	£0.45
701-542	Low Power Mosfet Transistor ZVN4306A.....	£1.45
701-538	Low Power Mosfet Transistor ZVN4206A.....	£0.99
701-540	Low Power Mosfet Transistor ZVN4210A.....	£0.99
701-544	Low Power Mosfet Transistor ZVN4310A.....	£1.45
701-522	Low Power Mosfet Transistor BS170.....	£0.30
701-554	Low Power Mosfet Transistor ZVP3306A.....	£0.75
701-550	Low Power Mosfet Transistor ZVP2106A.....	£0.75
701-552	Low Power Mosfet Transistor ZVP2110A.....	£0.55
711-000	Low Power Mosfet Transistor ZVP2120A.....	£0.70

IF THERE ARE ANY ITEMS THAT WE HAVE FORGOTTEN WHILST ADDING OUR NEW RANGES

PLEASE FEEL FREE TO LET US KNOW

POWER MOSFETS

POWER MOSFETS 100V TO 1000V TO-220 PACKAGE standard power MOSFETS supplied in a TO-220 packages.



Technical Specification

VDS V	RDS Type (Ω)	IDcont @25°C A	IDM pulsed A	PD @25°C W	Device
60	N 0.09	30	120	70	STP36NF06
60	N 0.18	50	200	100	STP55NF06
100	N 0.13	15	60	60	STP14NF10
100	N 0.09	17	60	70	IRF530NPBF
100	N 0.54	5.6	20.0	43	IRF510
500	N 0.85	8	32	125	IRF840
100	N 0.16	14.0	56	88	IRF530
100	N 0.077	28	100	150	IRF540PBF
200	N 0.4	10	40	100	IRF630
200	N 0.18	18	72	125	IRF640
400	N 0.75	5.5	22	100	IRF730
100	P 0.6	6.8	27	60	IRF9520
100	P 0.2	12	52	75	IRF9530
200	P 0.8	6.5	26	74	IRF9630
200	P 0.5	11	44	125	IRF9640

CODE	TYPE	PRICE
N-Channel		
24-0244	Power Mosfet STP36NF06.....	£0.99
24-0530	Power Mosfet STP55NF06.....	£0.99
24-0248	Power Mosfet STP14NF10.....	£0.99
24-0250	Power Mosfet IRF530NPBF.....	£0.99
701-766	Power Mosfet IRF510.....	£0.99
24-0254	Power Mosfet IRF840.....	£1.25
701-592	Power Mosfet IRF530.....	£1.25
701-770	Power Mosfet IRF540PBF.....	£1.25
701-596	Power Mosfet IRF630.....	£1.25
701-772	Power Mosfet IRF640.....	£1.75
701-774	Power Mosfet IRF730.....	£1.25
P-Channel		
701-608	Power Mosfet IRF9520.....	£1.25
701-784	Power Mosfet IRF9530.....	£1.25
701-610	Power Mosfet IRF9630.....	£1.25
701-612	Power Mosfet IRF9640.....	£1.25

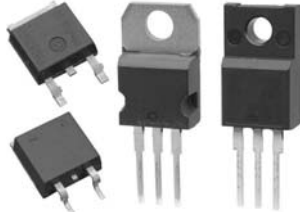
PRODUCT CODES

PLEASE NOTE IT IS VERY IMPORTANT TO USE THE CORRECT PRODUCT CODE FOR THE ITEMS YOU WISH TO ORDER

IT IS VITAL TO INCLUDE THE PUNCTUATION IN THE CODE AND TO FORMAT THE CODE AS SHOWN IN THE CATALOGUE

SQUIRES ELECTRONIC COMPONENTS

SUPERMESH HIGH VOLTAGE POWER MOSFET a high voltage N-channel power MOSFETs using ST Microelectronics SuperMESH technology. Applications include off-line and switch-mode power supplies, adaptors, power factor correctors, lamp ballasts and high intensity discharge lamps. With integrated back-to-back zener diode between gate and source terminals for ESD and voltage spike protection. Low on-resistance allows use of smaller heatsinks. Available in TO-220 and isolated TO-220FP through hole packages and DPAK and D²PAK surface mount packages. Low threshold voltage and fully avalanche tested during manufacture.



Technical Specification

V _{DS} (V)	R _{DS(ON)} max. (Ω)	IDcont @TC=25°C	IDM pulsed(A)	PTOT @25°C(W)	V _{GS(th)} max.(V)	Q _G Typ.(nC)
TO-220						
800	3.5	3	12	80	4.5	22.5
800	2.4	4.3	17.2	110	4.5	32.4
800	1.8	5.2	20.8	125	4.5	40
900	2	5.8	23.2	140	4.5	46.5
TO-220FP						
500	1.5	4.4	17.6	25	4.5	20
500	0.85	7.2	28.8	30	4.5	32
600	3.6	2.4	9.6	20	4.5	11.8
600	1.2	6	24	30	4.5	33
DPAK						
500	1.5	4.4	17.6	70	4.5	20
D²PAK						
600	0.5	13.5	54	160	4.5	75

CODE	TYPE	PRICE
24-0264	MOSFET TO-220 STP4NK80Z 800V 3A.....	£1.50
24-0266	MOSFET TO-220 STP5NK80Z 800V 4.3A.....	£1.50
24-0268	MOSFET TO-220 STP7NK80Z 800V 5.2A.....	£1.75
24-0272	MOSFET TO-220 STP6NK90Z 900V 5.8A.....	£1.75
24-0274	FET TO-220FP STP5NK50ZFP 500V 4.4A.....	£0.75
24-0276	FET TO-220FP STP9NK50ZFP 500V 7.2A.....	£1.50
24-0278	FET TO-220FP STP3NK60ZFP 600V 2.4A.....	£0.75
24-0280	FET TO-220FP STP6NK60ZFP 600V 6A.....	£0.75
24-0282	MOSFET D-PAK STD5NK50ZT4 500V 4.4A.....	£0.75
24-0286	MOSFET D2-PAK STB14NK60ZT4 600V 13.5A.....	£1.75

LATERAL MOSFET AUDIO DRIVERS A range of driver transistors intended for driving lateral MOSFETs in high quality audio applications. Their low Cob and high linear gain minimise the distortion caused by the Miller effect when working with high voltage swings. They have very low distortion and high breakdown voltages.



Technical Specification

Device	Type	V _{CE}	V _{CB}	I _C	h _{FE} @10mA	fr	Ptot	Cob	Case
2SA1209	PNP	-160V	-180V	140mA	100-280	150MHz	10W	4.0pF	TO126
2SC2911	NPN	160V	180V	140mA	100-280	150MHz	10W	3.0pF	TO126

CODE	TYPE	PRICE
711-010	Lateral MOSFET Audio Driver 2SA1209.....	£1.65
711-012	Lateral MOSFET Audio Driver 2SC2911.....	£1.65

IF THERE ARE OTHER PRODUCTS THAT YOU WOULD LIKE US TO STOCK, PLEASE FEEL FREE TO LET US KNOW.

FULLY AUTOPROTECTED POWER MOSFETS A range of fully autoprotected power Mosfets, intended as replacements for standard power Mosfets in DC to 50kHz applications. Built in thermal shutdown, linear current limitation and overvoltage clamp protect the device in harsh environments. Housed in a standard T0220 package, other features include: short circuit protection, logic level input threshold, ESD protection, high noise immunity, schmitt trigger on input and low current drawn from input pin.



Technical specification

Device	V _{clamp}	R _{DS(on)}	I _{lim}	P _{tot}
VNP7N04	42V	0.14Ω	7A	31W
VNP10N06	60V	0.3Ω	10A	42W
VNP10N07	70V	0.1Ω	10A	50W
VNP20N07	70V	0.05Ω	20A	83W
VNP49N04	42V	0.02Ω	49A	125

CODE	TYPE	PRICE
701-626	Fully Autoprotected Power Mosfet VNP7N04.....	£1.50
701-628	Fully Autoprotected Power Mosfet VNP10N06.....	£1.50
24-0304	Fully Autoprotected Power Mosfet VNP10N07.....	£2.25
701-634	Fully Autoprotected Power Mosfet VNP20N07.....	£2.50
24-0306	Fully Autoprotected Power Mosfet VNP49N04.....	£5.75

DIL MOSFET a range of MOSFETs supplied in a DIL package. 1.3W.



Technical Specification

V _{DSS} V	Type	R _{DS(on)} Ω	I _D A	I _{DM} A	P _D W	Device
60	P	0.28	1.6	13	1.3	IRFD9024
100	P	0.60	1.0	8	1.3	IRFD9120
100	N	0.54	1.0	8	1.3	IRFD110
100	N	0.27	1.3	10	1.3	IRFD120

CODE	TYPE	PRICE
24-1226	DIL MOSFET N CHANNEL IRFD110 100V.....	£0.99
24-1228	DIL MOSFET N CHANNEL IRFD120 100V.....	£0.99
24-1230	DIL MOSFET P CHANNEL IRFD9024 60V.....	£0.99
24-1232	DIL MOSFET P CHANNEL IRFD9120 100V.....	£0.99

PRODUCT CODES

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