

SEMICONDUCTORS 87

Silicon rectifier diodes

1N4001 series

Minature 1A plastic diodes. Supplied bandoliered.



Type	Vrrm	Order code	Price each		
			1-99	100-999	1000+
1N4001	50V	555-500	£0.03	£0.015	£0.008
1N4002	100V	555-501	£0.03	£0.015	£0.01
1N4003	200V	555-502	£0.03	£0.015	£0.01
1N4004	400V	555-503	£0.03	£0.015	£0.01
1N4006	800V	555-504	£0.03	£0.015	£0.01
1N4007	1000V	555-505	£0.03	£0.015	£0.01

1N5400 series

Minature 3A plastic diodes. Supplied bandoliered.



Type	Vrrm	Order code	Price each		
			1-99	100-1499	1500+
1N5401	100V	555-506	£0.06	£0.038	£0.028
1N5402	200V	555-507	£0.07	£0.05	£0.033
1N5404	400V	555-508	£0.08	£0.06	£0.05
1N5406	600V	555-509	£0.08	£0.06	£0.05
1N5408	1000V	555-510	£0.08	£0.056	£0.043

Signal diodes

Technical specification

Type	Vrrm	If(ave)	Vf(max)	At	application
1N4148 silicon diffused	75V	150mA	1.0V	10mA	high speed radio
OA91 geranium					

Type	Order code	Price each		
		1-99	100-999	1000+
1N4148	555-750	£0.01	£0.006	£0.0048
		1-24	25-99	100+
OA91	555-760	£0.30	£0.26	£0.22

Zener diodes

BZX55 series 500mW

Subminiature 500mW glass encapsulated zener diodes.



Type	Order code	Price each		
		1-99	100-499	500+
2V7 500mW zener	555-600	£0.04	£0.018	£0.013
3V0 500mW zener	555-601	£0.04	£0.018	£0.013
3V3 500mW zener	555-602	£0.04	£0.018	£0.013
3V6 500mW zener	555-603	£0.04	£0.018	£0.013
3V9 500mW zener	555-604	£0.04	£0.018	£0.013
4V3 500mW zener	555-605	£0.04	£0.018	£0.013
4V7 500mW zener	555-606	£0.04	£0.018	£0.013
5V1 500mW zener	555-607	£0.04	£0.018	£0.013
5V6 500mW zener	555-608	£0.04	£0.018	£0.013
6V2 500mW zener	555-609	£0.04	£0.018	£0.013
6V8 500mW zener	555-610	£0.04	£0.018	£0.013
7V5 500mW zener	555-611	£0.04	£0.018	£0.013
8V2 500mW zener	555-612	£0.04	£0.018	£0.013
9V1 500mW zener	555-613	£0.04	£0.018	£0.013
10V 500mW zener	555-614	£0.04	£0.018	£0.013
11V 500mW zener	555-615	£0.04	£0.018	£0.013
12V 500mW zener	555-616	£0.04	£0.018	£0.013
13V 500mW zener	555-617	£0.04	£0.018	£0.013
15V 500mW zener	555-618	£0.04	£0.018	£0.013
16V 500mW zener	555-619	£0.04	£0.018	£0.013
18V 500mW zener	555-620	£0.04	£0.018	£0.013
20V 500mW zener	555-621	£0.04	£0.018	£0.013

BZX85C series 1.3W

1.3W Zener diode in a DO-41 package



Type	Order code	Price each		
		1-99	100-499	500+
3V9 1.3W zener	555-641	£0.06	£0.038	£0.023
4V3 1.3W zener	555-642	£0.06	£0.038	£0.023
4V7 1.3W zener	555-640	£0.06	£0.038	£0.023
5V1 1.3W zener	555-643	£0.06	£0.038	£0.023
5V6 1.3W zener	555-644	£0.06	£0.038	£0.023
6V2 1.3W zener	555-645	£0.06	£0.038	£0.023
6V8 1.3W zener	555-646	£0.06	£0.038	£0.023
7V5 1.3W zener	555-647	£0.06	£0.038	£0.023
8V2 1.3W zener	555-648	£0.06	£0.038	£0.023
9V1 1.3W zener	555-649	£0.06	£0.038	£0.023

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Type	Order code	Price each		
		1-99	100-499	500+
10V 1.3W zener	555-650	£0.06	£0.038	£0.023
11V 1.3W zener	555-651	£0.06	£0.038	£0.023
12V 1.3W zener	555-652	£0.06	£0.038	£0.023
13V 1.3W zener	555-653	£0.06	£0.038	£0.023
15V 1.3W zener	555-654	£0.06	£0.038	£0.023
16V 1.3W zener	555-655	£0.06	£0.038	£0.023
18V 1.3W zener	555-656	£0.06	£0.038	£0.023
20V 1.3W zener	555-657	£0.06	£0.038	£0.023

1A fixed 79 series voltage regulators

1A negative voltage regulators in a TO-220 plastic package



Type	Tube qty	Order code	Price each		
			1-24	25-99	100+
7905 -5V	50	555-004	£0.25	£0.20	£0.16
7912 -12V	50	555-005	£0.25	£0.20	£0.16
7915 -15V	50	555-006	£0.25	£0.20	£0.16

Thyristors



Thyristors in a plastic case. Ideal for use in power supplies, light and heater control etc.

Technical specification

Type	V _{rrm}	I _t	V _{gt}	I _{gt}	Manufacturer
C106D	400v	4A			Fagor
TIC106D	400V	5A	0.8V	0.2mA	
TIC116D	400V	8A	1.5V	20mA	Texas Instruments

Type	Tube qty	Order code	Price each			
			1-24	25-99	100-499	500+
C106D		555-802	£0.20	£0.16	£0.14	£0.11
TIC106D		555-801	£0.29	£0.26	£0.22	£0.18
TIC116D		555-800	£0.39	£0.35	£0.31	

Variable voltage regulators

Three terminal positive variable voltage regulators

National S



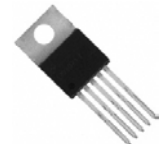
Technical specification

Type	Voltage	Current	Package
LM317T	1.2 to 37V	1.2A	TO-220

Type	Tube qty	Order code	Price each			
			1-24	25-99	100-499	500+
LM317T	50	555-550	£0.27	£0.22	£0.19	£0.15

LM2925T Voltage regulator

National S



The LM2925T is a high current low drop out regulator with an integral reset function having an externally set delay time. Other features include short circuit protection and thermal overload protection.

Technical specification

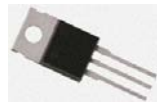
Max input voltage	31V dc
Output voltage	5V dc
Package	TO-220 5 pin

Type	Tube qty	Order code	Price each		
			1-24	25-99	100+
LM2925T		555-551	£1.95	£1.75	£1.55

Triacs

Texas I

A range of plastic case triacs ideal for use in motor, heater and lamp control.



Type	I _t rms	V _{drm}	V _{gt}	Order code	Price each		
					1-24	25-99	100+
TIC206D	3A	400V	2V	555-850	£0.45	£0.39	£0.35
TIC226D	8A	400V	2.5V	555-851	£0.55	£0.49	£0.44

1A fixed 78 series voltage regulators

1A regulators in a TO-220 plastic package



Type	Tube qty	Order code	Price each			
			1-24	25-99	100-499	500+
7805 5V	50	555-003	£0.22	£0.18	£0.14	£0.11
7812 12V	50	555-002	£0.22	£0.18	£0.14	£0.11
7815 15V	50	555-001	£0.22	£0.18	£0.14	£0.11

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Type	Order code	Price each			Pol	Case	Vcb V	Vce V	Veb V	Ic mA	Ptot mW	hFE(min) Ic(mA)MHz	fT(min)	Man	application
		1-99	100	500+											
BC107B	550-001	£0.14	£0.11	£0.10	NPN	T018	50	45	6	100	300	200@2	300	CD	General purpose
BC108	550-029	£0.15	£0.13	£0.12	NPN	T018	30	20	5	100	300	330@2	300	CD	General purpose
BC108C	550-002	£0.15	£0.13	£0.12	NPN	T018	30	20	5	100	300	420@2	300	CD	General purpose
BC109C	550-003	£0.15	£0.13	£0.12	NPN	T018	30	20	5	100	300	420@2	300	CD	General purpose
BC177B	550-035	£0.18	£0.14		PNP	T018	45	45	5	100	300	70@2	130		General purpose A
BC178B	550-036	£0.18	£0.14		PNP	T018	20	20	5	100	300	240@2	200		General purpose A
BC179B	550-037	£0.18	£0.14	£0.12	PNP	T018	20	20	5	200	300	500@2	150		General purpose A
BC182	550-004	£0.05	£0.02		NPN	T092f	60	50	5	200	300	240@2	150		General purpose
BC184	550-005	£0.05	£0.03		NPN	T092f	45	30	5	200	300	240@2	150		General purpose
BC184L	550-006	£0.05	£0.03	£0.02	NPN	T092A	45	30	5	500	625	100@100	100		General purpose A
BC327-25	550-007	£0.05	£0.02	£0.018	PNP	T092f	50	45	5	500	800	100@100	100		General purpose A
BC337	550-008	£0.05	£0.02		NPN	T092f	50	45	5	500	800	100@100	100		General purpose A
BC517	550-044	£0.09	£0.05	£0.04	NPN	T092f	40	30	10	1200	625	30000@20			Darlington
BC547B	550-040	£0.04	£0.018	£0.016	NPN	T092f	50	45	6	100	500	200@2	150		Plastic BC107
BC548C	550-041	£0.05	£0.023	£0.016	NPN	T092f	30	30	6	100	500		150		Plastic BC108
BC549B	550-042	£0.05	£0.023	£0.016	NPN	T092F	30	30	5	100	625	240@2	150		Plastic BC109
BC639	550-038	£0.08	£0.045	£0.037	NPN	T092A	80	80	5	1A	800	40@150	200	CD	General purpose
BCY70	550-050	£0.28	£0.24	£0.23	PNP	T018	50	40	3	200	350	50@2	250		General purpose A
BFY50	550-009	£0.26	£0.23	£0.21	NPN	T05	80	35	6	1A	800	30@150	60		General purpose A
BFY51	550-010	£0.23	£0.20	£0.17	NPN	T05	60	30	6	1A	800	40@150	50	CD	General purpose A
BSX20	550-026	£0.60	£0.52		NPN	T018	40	15	5	500	360	40@10	400	ST	VHF switch
MPSA13	550-045	£0.05	£0.03	£0.025	NPN	T092b	30	30	5	3A	40W	20@1A	3		General purpose
TIP31C	550-011	£0.22	£0.15	£0.14	NPN	T0220	40	40	10	500	0.625	5@10	125		Darlington
TIP32C	550-012	£0.25	£0.19		PNP	T0220	100	100	5	3A	40W	20@1A	3		Audio high voltage
TIP41A	550-013	£0.29	£0.21	£0.18	NPN	T0220	60	60	5	6A	2W	15@3A	3		General purpose A
TIP41C	550-014	£0.35	£0.26	£0.19	NPN	T0220	100	100	5	6A	2W	15@3A	3		General purpose A
TIP42	550-015	£0.25	£0.19		PNP	T0220	40	40	5	6A	2W	15@3A	3		General purpose A
TIP42C	550-016	£0.25	£0.19		PNP	T0220	100	100	5	6A	2W	15@3A	3		General purpose A
TIP120	550-033	£0.24	£0.21		NPN	T0220	60	60	5	5A	65W	1000@3A		TI	Darlington Audio
TIP132	550-027	£0.59	£0.51		NPN	T0220		100		4A	70W	1000@4A		TI	Darlington
ZTX500	550-018	£0.17	£0.14		PNP	T092e	60	45	5	500	300	50@10	150	ZT	General purpose A
2N2222A	550-032	£0.16	£0.13		NPN	T018	75	40	6	800	500	100@150	300		General purpose R
2N3053	550-028	£0.21	£0.19	£0.17	NPN	T039	60	40	5	700	5W	50@150	100		General purpose
2N3055	550-039	£0.55	£0.44	£0.40	NPN	T03	100	60	4	15A	115W	20-70@4A			High voltage Audio
2N3906	550-046	£0.06	£0.04	£0.025	PNP	T092		40							

Unijunction transistors

Type	Order code	Price each		Case
		1-99	100+	
2N2646	550-034	£1.45	£0.99	T018

Ordering could not be easier. Telephone 9am to 6pm Monday to Friday.

Orders accepted by telephone, fax, e-mail, on-line or post.

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Mosfets and JFets

	1-24	25-99	100+		
ZVN4206A	550-048	£0.28	£0.24	£0.22	N E-line
VNP7N04	550-049	£0.72	£0.61	£0.56	N TO-220
ZVP3306A	550-047	£0.23	£0.21	£0.19	P E-line
2N3819	550-020	£0.15	£0.095		JFET T092

Surface mount transistors

Type	Order code	Price each				Pol	Ic	Vce	Ptot	hfe	ic
		1-99	100+	1000+	3K+						
BC807-25	550-070	£0.05	£0.025	£0.02	£0.015	PNP	500	45	250	160	100
BC846B	550-071	£0.05	£0.025	£0.017	£0.013	NPN	100	65	100	200	2
BC847B	550-072	£0.05	£0.025	£0.017	£0.013	NPN	100	45	100	200	2

