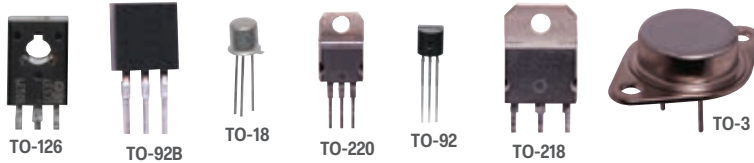


▼ FETs & Transistors

Transistors

All quantities are supplied loose.



TO-3 Transistor Cover

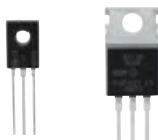
Cover insulates the TO-3 transistor case to prevent accidental short circuits.



Price Each	RRP	4+	10+
H 7290A Cover	1.40	1.25	1.10

Price Each	Type	Trans No.	Package	Ic Max	VCB Max	VCE Max	VEB Max	HFE	HFE Bias	Freq. Max	Description	RRP	10+	50+
Z 1030	PNP	BC327	TO92h	-800mA	-50V	-45V	-5V	>100	100mA	60M	GENERAL PURPOSE	0.20	0.17	0.14
Z 1035	NPN	BC337	TO92h	800mA	50V	45V	5V	>100	100mA	60M	GENERAL PURPOSE	0.45	0.35	0.30
Z 1039	NPN	BC546	TO92h	100mA	80V	80V	6V	>110	2mA	200M	GENERAL PURPOSE	0.95	0.75	0.50
Z 1040	NPN	BC547	TO92h	100mA	50V	45V	6V	>110	2mA	200M	GENERAL PURPOSE	0.35	0.25	0.20
Z 1042	NPN	BC548	TO92h	100mA	30V	30V	6V	>110	2mA	200M	GENERAL PURPOSE	0.20	0.18	0.15
Z 1044	NPN	BC549	TO92h	100mA	30V	30V	6V	>110	2mA	200M	GENERAL PURPOSE	0.75	0.60	0.40
Z 1050	NPN	BC550	TO92h	100mA	50V	45V	6V	>240	2mA	200M	GENERAL PURPOSE	2.00	1.50	1.25
Z 1052	PNP	BC556	TO92h	100mA	80V	80V	5V	>110	2mA	150M	GENERAL PURPOSE	0.50	0.45	0.40
Z 1055	PNP	BC557	TO92h	-200mA	-50V	-45V	-6V	>110	2mA	75M	GENERAL PURPOSE	0.25	0.20	0.15
Z 1057	PNP	BC558	TO92h	-100mA	-30V	-30V	-5V	>110	2mA	75M	GENERAL PURPOSE	0.40	0.30	0.25
Z 1064	NPN	BC639	TO92	1A	80V	80V	5V	>40	150mA	50M	HIGH VOLTAGE	0.25	0.20	0.18
Z 1065	PNP	BC640	TO92	-1A	-80V	-80V	-5V	>40	150mA	50M	HIGH VOLTAGE	0.25	0.20	0.18
Z 1068	NPN	BD139	TO126	1A	80V	80V	5V	40-160	150mA	50M	HIGH VOLTAGE	0.55	0.45	0.35
Z 1069	PNP	BD140	TO126	-1A	-80V	-80V	-5V	40-160	150mA	50M	HIGH VOLTAGE	1.20	0.90	0.80
Z 1081	NPN	BD681	TO126	4A	100V	100V	5V	>750	1500mA	1M	DARLINGTON	1.40	1.25	0.95
Z 1082	PNP	BD682	TO126	-4A	-100V	-100V	-5V	>750	1500mA	1M	DARLINGTON	2.75	1.95	1.75
Z 1128	PNP	MJE2955T	TO220	-10A	-60V	-60V	-5V	>20	4A	2M	AF APPLICATIONS	2.95	2.10	1.80
Z 1130	NPN	TIP29C	TO220	1A	100V	100V	5V	>15	1A	3M	GENERAL PURPOSE	1.20	1.10	0.95
Z 1134	NPN	TIP31C	TO220	3A	100V	100V	5V	20-100	1A	3M	GENERAL PURPOSE	2.00	1.40	1.20
Z 1136	PNP	TIP32C	TO220	-3A	-100V	-100V	-5V	20-100	1A	3M	GENERAL PURPOSE	2.00	1.40	1.20
Z 1138	NPN	TIP41C	TO220	6A	100V	100V	5V	15-75	3A	3M	GENERAL PURPOSE	2.30	1.65	1.45
Z 1142	NPN	TIP121	TO220	5A	80V	80V	5V	1000	3A	4M	GENERAL PURPOSE	3.25	2.25	2.00
Z 1146	PNP	TIP2955	TO247	-15A	-100V	-60V	-7V	>20	4A	3M	GENERAL PURPOSE	3.75	3.30	2.55
Z 1166	NPN	2N2222A	TO18	800mA	75V	40V	6V	>100	150mA	300M	RF TRANSISTOR	1.75	1.50	1.25
Z 1200	NPN	2N3904	TO92B	200mA	60V	40V	6V	50-150	10mA	200M	LOW NOISE	0.75	0.65	0.55
Z 1202	PNP	2N3906	TO92B	-200mA	-40V	-40V	-5V	55-160	10mA	250M	GENERAL PURPOSE	0.95	0.75	0.55
Z 1260	PNP	MJL21193G	TO264	-16A	-400V	-250V	-5V	75	5A	4M	HIGH POWER AUDIO	13.95	12.60	11.20

SCRs / Triacs



Price Each	Package	RRP	10+	25+
Z 1768 C106D SCR 400V/4A	TO-126	2.10	1.85	1.50
Z 1712 BT137/500 TRIAC 500V/8A	TO-220A	3.10	2.75	2.15

Simple Guide To Soldering Components

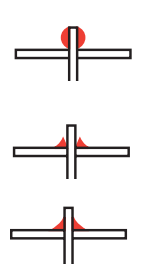
The single most common cause of circuit failure is bad solder joints.

A solder joint can at first glance look to be okay, but under close examination it could turn out to be a 'dry joint'. A dry joint is when either the circuit board or the leg of the component has not been properly heated to allow the solder to flow between the surfaces freely. This creates an intermittent or no electrical connection. This can also be caused by a lack of flux, which is impregnated in the solder, or if you reuse old solder. Quite often, reheating a bad join will cure the problem but in a lot of cases, the old solder will need to be removed and some new solder applied.

Bad Solder Joint: The solder has not taken to the PCB and the leg has formed a ball of solder on it.
Cause: Not enough heat to PCB track.

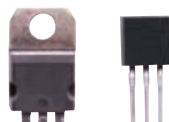
Bad Solder Joint: Solder has flowed over PCB but the leg of the component remains un-soldered.
Cause: Not enough heat to the components leg.

Good Solder Joint: The solder has flowed over PCB and Component leg.



MOSFETs & IGBTs

N or P channel
denoted in brackets.
Supplied loose.



Price Each	Rating	Package	RRP	10+	25+
Z 1123 MTP3055V MOSFET (N)	60V 12A	TO-220	2.30	1.95	1.50
Z 1537 IRF540N MOSFET (N)	100V 33A	TO-220	6.50	5.70	4.50
Z 1539 IRF740 MOSFET (N)	400V 10A	TO-220	4.00	3.65	2.85
Z 1555 2N7000 TMOFSET (N)	60V 0.2A	TO-92	1.25	0.95	0.75
Z 1107 IGP01N120H2 IGBT (N)	1200V 1A	TO-220	5.45	5.10	4.75
Z 1543 IRF9540NPBF MOSFET (P)	-100V -23A	TO-220	1.95	1.55	1.25