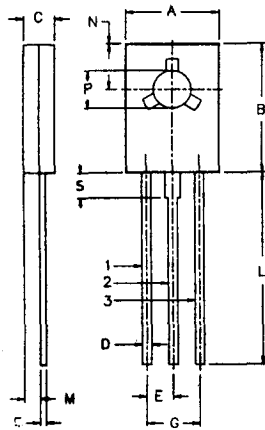
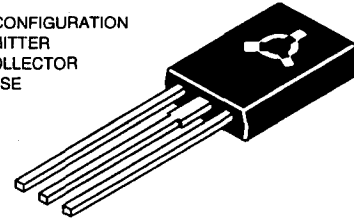


# TO-126 Plastic Package Transistors

PIN CONFIGURATION  
 1. EMITTER  
 2. COLLECTOR  
 3. BASE



DIM	MIN.	MAX.
A	7.4	7.8
B	10.5	10.8
C	2.4	2.7
D	0.7	0.9
E	2.25 TYP.	
F	0.49	0.75
G	4.5 TYP.	
L	15.7 TYP.	
M	1.27 TYP.	
N	3.75 TYP.	
P	3.0	3.2
S	2.5 TYP.	

ALL DIMENSIONS IN MM

Maximum Ratings						Electrical Characteristics (Ta = 25°C, Unless Otherwise Specified)											
Type No.	Polarity	V <sub>CBO</sub> (V)	V <sub>CEO</sub> (V)	V <sub>EB0</sub> (V)	P <sub>D</sub> (W)	I <sub>C</sub> (A)	I <sub>CBO</sub> (μA)	V <sub>CB</sub> (V)	h <sub>FE</sub>	I <sub>C</sub> & (A)	V <sub>CE</sub> (V)	V <sub>CE(SAT)</sub> (V)	I <sub>C</sub> (A)	C <sub>ob</sub> (pF)	f <sub>t</sub> (MHz)	I <sub>C</sub> (A)	
		Min	Min	Min	@Tc=25°C	Max	Max	Min	Max	Max	Max	Max	Typ	Min			
2SA715	PNP	35	35	5	10.0	2.50	20.00	35	60	320.00	0.50	2.0	1.0	2.0	NS	160.0 <sup>†</sup>	0.2
2SA1220	PNP	120	120	5	20.0	1.20	1.00	120	60	320.00	0.30	5.0	0.7	1.0	26.0	175.0 <sup>†</sup>	0.2
2SA1220A	PNP	160	160	5	20.0	1.20	1.00	120	60	320.00	0.30	5.0	0.7	1.0	26.0	175.0 <sup>†</sup>	0.2
2SB744	PNP	70	45	5	10.0	3.00	1.00	45	60	320.00	0.50	5.0	2.0	1.5	60.0	45.0 <sup>†</sup>	0.1
2SB744A	PNP	70	60	5	10.0	3.00	1.00	45	60	320.00	0.50	5.0	2.0	1.5	60.0	45.0 <sup>†</sup>	0.1
2SB772	PNP	30	40	5	10.0	3.00	1.00	30	60	400.00	1.00	2.0	0.5	2.0	55.0	80.0 <sup>†</sup>	0.1
2SB1065	PNP	60	50	5	10.0	3.00	1.00	40	56	390.00	0.50	3.0	1.0	2.0	50.0	70.0 <sup>†</sup>	0.5
2SB1086	PNP	120	120	5	10.0	1.50	1.00	100	56	390.00	0.10	5.0	2.0	1.0	30.0	50.0 <sup>†</sup>	0.1
2SC1162	NPN	35	35	5	10.0	2.50	20.00	35	60	320.00	0.50	2.0	1.0	2.0	NS	180.0 <sup>†</sup>	0.2
2SC2371	NPN	300	300	7	10.0	0.10	0.10	200	40	250.00	0.01	10.0	1.5	0.03	3.0	50.0	0.01
2SC2611	NPN	300	300	5	1.25	0.10	1.00 <sup>**</sup>	250	30	200.00	0.02	20.0	1.5	0.02	4.0 <sup>#</sup>	50.0	0.02
2SC2688	NPN	300	300	5	10.0	0.20	0.10	200	40	250.00	0.01	10.0	1.5	0.05	3.0 <sup>§</sup>	50.0	0.01
2SC2690	NPN	120	120	5	20.0	1.20	1.00	120	60	320.00	0.30	5.0	0.7	1.0	19.0	155.0 <sup>†</sup>	0.2
2SC2690A	NPN	160	160	5	20.0	1.20	1.00	120	60	320.00	0.30	5.0	0.7	1.0	19.0	155.0 <sup>†</sup>	0.2
2SC3619	NPN	300	300	NS	1.5 <sup>®</sup>	0.10	1.00	240	30	200.00	0.02	10.0	1.0	0.01	3.0 <sup>#</sup>	50.0	0.02
2SD794	NPN	70	45	5	10.0	3.00	1.00	45	60	320.00	0.50	5.0	2.0	1.5	40.0	60.0 <sup>†</sup>	0.1
2SD794A	NPN	70	60	5	10.0	3.00	1.00	45	60	320.00	0.50	5.0	2.0	1.5	40.0	60.0 <sup>†</sup>	0.1
2SD882	NPN	40	30	5	10.0	3.00	1.00	30	60	400.00	1.00	2.0	0.5	2.0	45.0	90.0 <sup>†</sup>	0.1
2SD1506	NPN	60	50	5	10.0	3.00	1.00	40	56	390.00	0.5	3.0	1.0	2.0	40.0	90.0 <sup>†</sup>	0.5
2SD1563	NPN	120	120	5	10.0	1.50	1.00	100	56	390.00	0.1	5.0	2.0	1.0	20.0	80.0 <sup>†</sup>	0.1
BD135	NPN	45	45	5	12.5	1.50	0.10	30	40	250.00	0.15	2.0	0.5	0.5	NS	NS	NS
BD136	PNP	45	45	5	12.5	1.50	0.10	30	40	250.00	0.15	2.0	0.5	0.5	NS	NS	NS
BD137	NPN	60	60	5	12.5	1.50	0.10	30	40	250.00	0.15	2.0	0.5	0.5	NS	NS	NS
BD138	PNP	60	60	5	12.5	1.50	0.10	30	40	250.00	0.15	2.0	0.5	0.5	NS	NS	NS
BD139	NPN	100	80	5	12.5	1.50	0.10	30	40	250.00	0.15	2.0	0.5	0.5	NS	NS	NS
BD140	PNP	100	80	5	12.5	1.50	0.10	30	40	250.00	0.15	2.0	0.5	0.5	NS	NS	NS
BD157	NPN	275	250	5	20.0	0.50	100.00	275	30	240.00	0.05	10.0	NS	NS	NS	NS	NS
BD158	NPN	325	300	5	20.0	0.50	100.00	325	30	240.00	0.05	10.0	NS	NS	NS	NS	NS
BD165	NPN	45	45	5	20.0	1.50	100.00	45	40	NS	0.15	2.0	0.5	0.5	NS	6.0	0.5
BD166	PNP	45	45	5	20.0	1.50	100.00	45	40	NS	0.15	2.0	0.5	0.5	NS	6.0	0.5
BD167	NPN	60	60	5	20.0	1.50	100.00	60	40	NS	0.15	2.0	0.5	0.5	NS	6.0	0.5
BD168	PNP	60	60	5	20.0	1.50	100.00	60	40	NS	0.15	2.0	0.5	0.5	NS	6.0	0.5
BD169	NPN	80	80	5	20.0	1.5	100.00	80	40	NS	0.15	2.0	0.5	0.5	NS	6.0	0.5
BD170	PNP	80	80	5	20.0	1.50	100.00	80	40	NS	0.15	2.0	0.5	0.5	NS	6.0	0.5