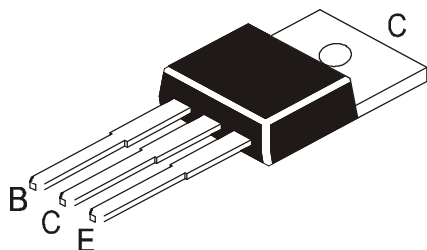


PLASTIC POWER TRANSISTORS

MJE2955T PNP
MJE3055T NPN

TO-220
Plastic Package



With excellent Safe Operating Area, ideal for Hi-Fi Amplifier and Switching Regulator Applications

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector Emitter Voltage	V_{CEO}	60	V
Collector Base Voltage	V_{CBO}	70	V
Emitter Base Voltage	V_{EBO}	5.0	V
Collector Current Continuous	I_C	10	A
Base Current	I_B	6.0	A
Power Dissipation upto $T_c=25^\circ\text{C}$ Derate above 25°C	P_D	75 0.6	W W/ $^\circ\text{C}$
Power Dissipation upto $T_a=25^\circ\text{C}$ Derate above 25°C	P_D	2.0 16	W mW/ $^\circ\text{C}$
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	- 55 to +150	$^\circ\text{C}$

THERMAL RESISTANCE

Junction to Case	$R_{th(j-c)}$	1.67	$^\circ\text{C/W}$
Junction to Ambient in free air	$R_{th(j-a)}$	62.5	$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS ($T_c=25^\circ\text{C}$ unless specified otherwise)

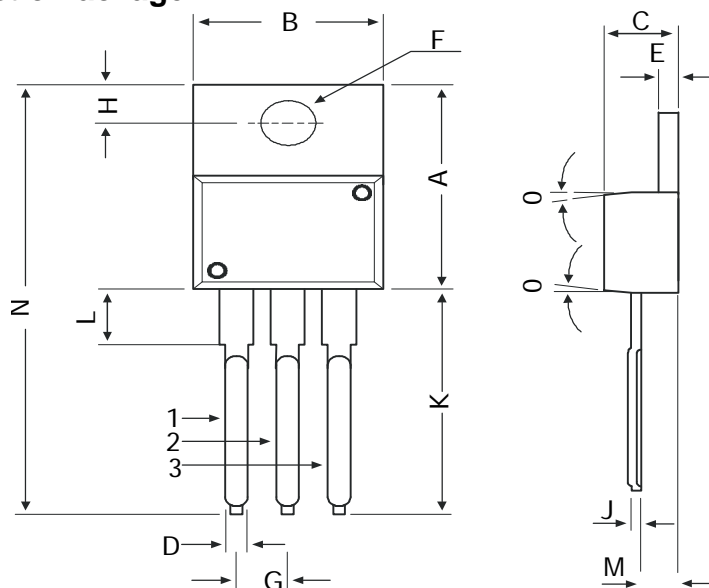
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Collector Emitter (sus) Voltage	$*V_{CEO(sus)}$	$I_C=200\text{mA}, I_B=0$	60		V
Collector Cut Off Current	I_{CEX}	$V_{CE}=70\text{V}, V_{EB(off)}=1.5\text{V}$ $V_{CE}=70\text{V}, V_{EB(off)}=1.5\text{V}, T_C=150^\circ\text{C}$		1.0 5.0	mA mA
Collector Cut Off Current	I_{CBO}	$V_{CB}=70\text{V}, I_E=0$ $V_{CB}=70\text{V}, I_E=0, T_C=150^\circ\text{C}$		1.0 10	mA mA
Collector Cut Off Current	I_{CEO}	$V_{CE}=30\text{V}, I_B=0$		0.7	mA
Emitter Cut Off Current	I_{EBO}	$V_{EB}=5\text{V}, I_C=0$		5.0	mA
DC Current Gain	$*h_{FE}$	$I_C=4\text{A}, V_{CE}=4\text{V}$ $I_C=10\text{A}, V_{CE}=4\text{V}$	20 5	100	
Collector Emitter Saturation Voltage	$*V_{CE(sat)}$	$I_C=4\text{A}, I_B=400\text{mA}$ $I_C=10\text{A}, I_B=3.3\text{A}$		1.1 8.0	V V
Base Emitter On Voltage	$*V_{BE(on)}$	$I_C=4\text{A}, V_{CE}=4\text{V}$		1.8	V
Transition Frequency	f_T	$I_C=0.5\text{A}, V_{CE}=10\text{V}, f=500\text{KHz}$	2		MHz

*Pulse Test : Pulse width $\leq 300\text{ms}$, Duty Cycle $\leq 2\%$

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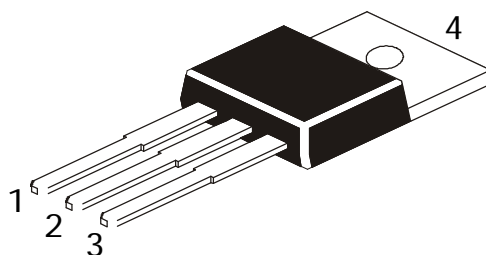
TO-220
Plastic Package

TO-220 Plastic Package



DIM	MIN	MAX
A	14.42	16.51
B	9.63	10.67
C	3.56	4.83
D	—	0.90
E	1.15	1.40
F	3.75	3.88
G	2.29	2.79
H	2.54	3.43
J	—	0.56
K	12.70	14.73
L	2.80	4.07
M	2.03	2.92
N	—	31.24
O	7 DEG	

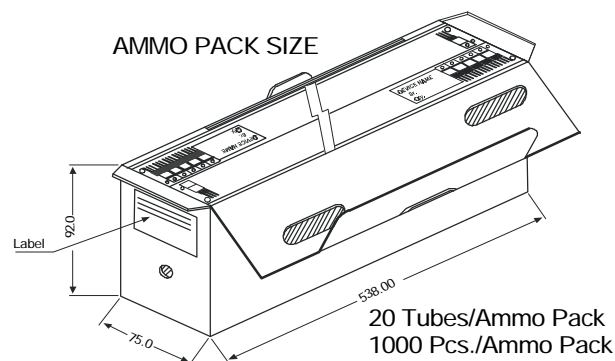
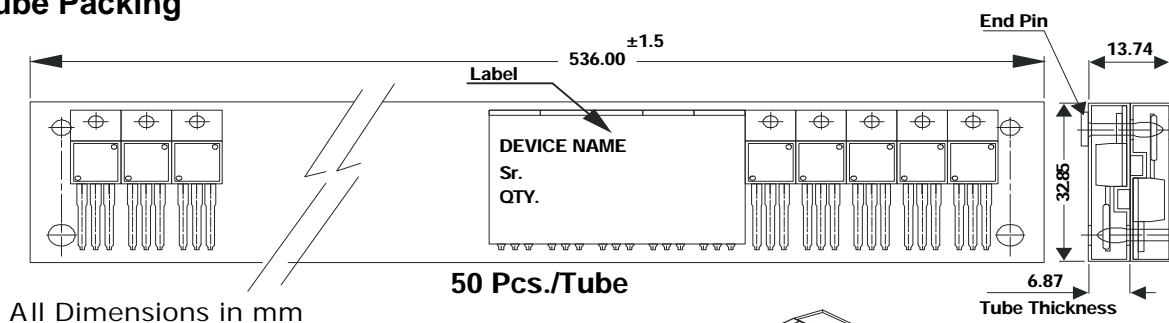
All diminsions in mm.



Pin Configuration

1. Base
2. Collector
3. Emitter
4. Collector

TO-220 Tube Packing



Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-220 /FP	200 pcs/polybag	396 gm/200 pcs	3" x 7.5" x 7.5"	1.0K	17" x 15" x 13.5"	16.0K	36 kgs
	50 pcs/tube	120 gm/50 pcs	3.5" x 3.7" x 21.5"	1.0K	19" x 19" x 19"	10.0K	29 kgs

Disclaimer

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