

MJE2955T / MJE3055T

THERMAL DATA

R _{thj-case}	Thermal Resistance Junction-case	Max	1.66	°C/W
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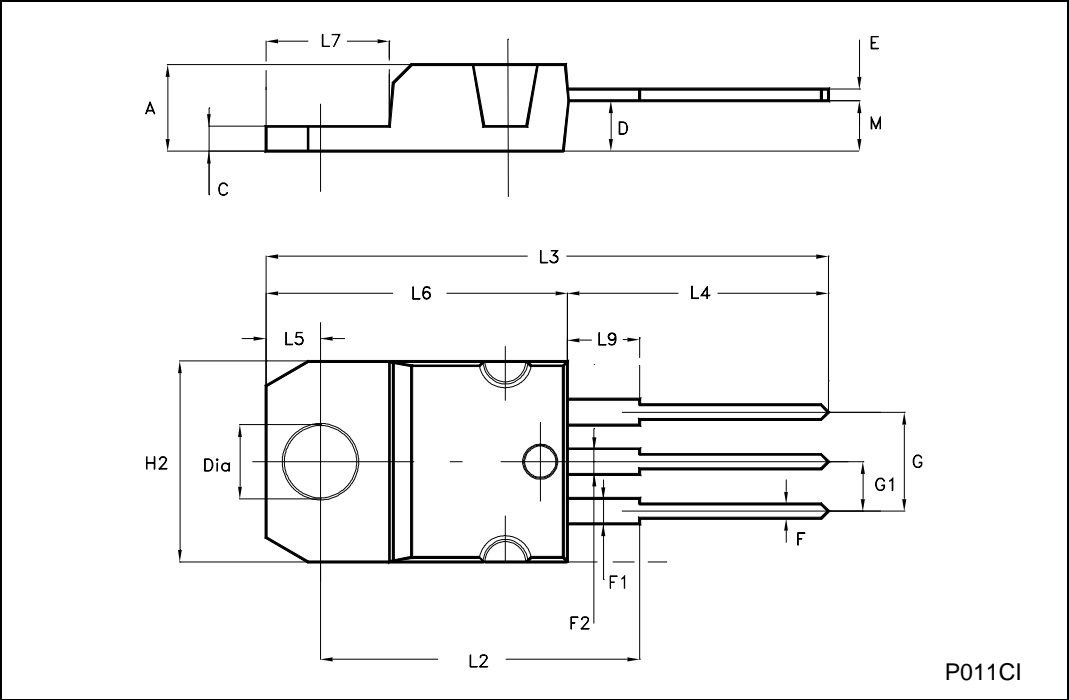
ELECTRICAL CHARACTERISTICS (T_{case} = 25 °C unless otherwise specified)

Symbol	Parameter	Test Conditions		Min.	Typ.	Max.	Unit
I _{CEO}	Collector Cut-off Current (I _B = 0)	V _{CE} = 30 V				700	μA
I _{CEX}	Collector Cut-off Current (V _{BE} = 1.5V)	V _{CE} = 70 V T _{case} = 150°C				1 5	mA mA
I _{CBO}	Collector Cut-off Current (I _E = 0)	V _{CBO} = 70 V T _{case} = 150°C				1 10	mA mA
I _{EBO}	Emitter Cut-off Current (I _C = 0)	V _{EBO} = 5 V				5	mA
V _{CEO(sus)} *	Collector-Emitter Sustaining Voltage (I _B = 0)	I _C = 200 mA		60			V
V _{CE(sat)} *	Collector-Emitter Sustaining Voltage	I _C = 4 A I _C = 10 A	I _B = 0.4 A I _B = 3.3 A			1.1 8	V V
V _{BE(on)} *	Base-Emitter on Voltage	I _C = 4 A	V _{CE} = 4 V			1.8	V
h _{FE}	DC Current Gain	I _C = 4 A I _C = 10 A	V _{CE} = 4 V V _{CE} = 4 V	20 5		70	
f _T	Transistor Frequency	I _C = 500 mA f = 500 KHz	V _{CE} = 10 V	2			MHz

* Pulsed: Pulse duration = 300μs, duty cycle ≤ 2 %
For PNP type voltage and current values are negative.

TO-220 MECHANICAL DATA

DIM.	mm			inch		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
A	4.40		4.60	0.173		0.181
C	1.23		1.32	0.048		0.052
D	2.40		2.72	0.094		0.107
E	0.49		0.70	0.019		0.027
F	0.61		0.88	0.024		0.034
F1	1.14		1.70	0.044		0.067
F2	1.14		1.70	0.044		0.067
G	4.95		5.15	0.194		0.202
G1	2.40		2.70	0.094		0.106
H2	10.00		10.40	0.394		0.409
L2		16.40			0.645	
L4	13.00		14.00	0.511		0.551
L5	2.65		2.95	0.104		0.116
L6	15.25		15.75	0.600		0.620
L7	6.20		6.60	0.244		0.260
L9	3.50		3.93	0.137		0.154
M		2.60			0.102	
DIA.	3.75		3.85	0.147		0.151



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