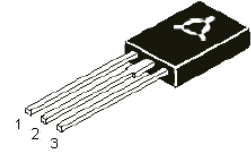


Medium Power NPN Transistor

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Pin Configuration:

1. Emitter
2. Collector
3. Base

Feature:

- NPN Plastic Medium Power Silicon Transistor
- Useful for High Voltage General Purpose Applications

Absolute Maximum Ratings

Description	Symbol	Rating	Unit
Collector Base Voltage	V_{CBO}	300	V
Collector Emitter Voltage	V_{CEO}		
Emitter Base Voltage	V_{EBO}		
Collector Current Continuous	I_C	500	mA
Power Dissipation at $T_c = 25^\circ\text{C}$ Derate above 25°C	P_D	20 0.16	W mW/ $^\circ\text{C}$
Operating and Storage Junction Temperature Range	T_j, T_{stg}	-65 to +150	$^\circ\text{C}$

Thermal Resistance

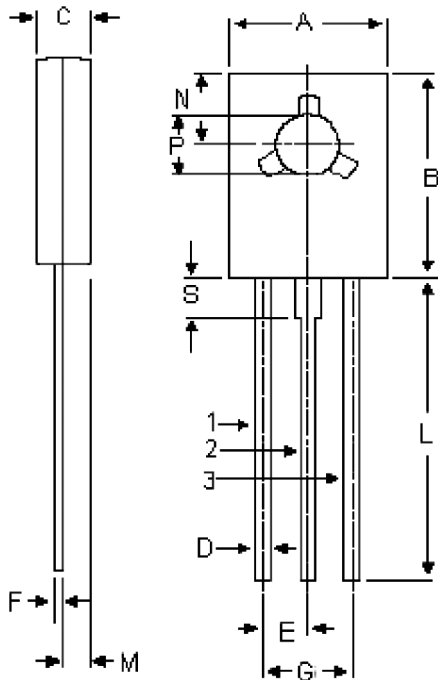
Junction to Case	$R_{th(j-c)}$	6.25	$^\circ\text{C/W}$
Junction to Ambient	$R_{th(j-a)}$	83.3	

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

Parameter	Symbol	Test Condition	Min.	Max.	Unit
Collector Emitter Sustaining Voltage	$V_{CEO(SUS)}$	$I_C = 1\text{mA}, I_B = 0$	300	-	V
Collector Cut off Current	I_{CBO}	$V_{CB} = 300\text{V}, I_E = 0$	-	100	μA
Emitter Cut off Current	I_{EBO}	$V_{BE} = 3\text{V}, I_C = 0$	-		
DC Current Gain	h_{FE}	$I_C = 0.05\text{A}, V_{CE} = 10\text{V}$	30	240	-

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Dimensions	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 (Typical)	
F	0.49	0.75
G	4.5 (Typical)	
L	15.7 (Typical)	
M	1.27 (Typical)	
N	3.75 (Typical)	
P	3	3.2
S	2.5 (Typical)	

Dimensions : Millimetres

Pin Configuration:

1. Emitter
2. Collector
3. Base

Part Number Table

Description	Part Number
Transistor, NPN, TO-126	MJE340

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