

Silicon NPN Power Transistor

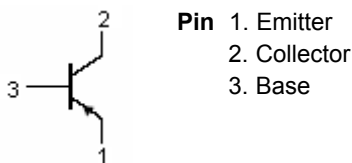


Features:

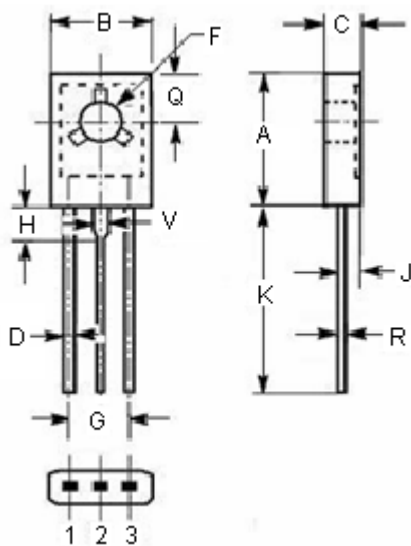
- Collector - emitter sustaining voltage : $V_{CEO(SUS)} = -300\text{ V}$ (Minimum)
- DC current gain : $h_{FE} = -100$ (Minimum) at $I_C = 50\text{ mA}$
- Low collector saturation voltage : $V_{CE(sat)} = -1\text{ V}$ (Maximum) at $I_C = 50\text{ mA}$

Applications:

Designed for high voltage and general purpose applications



TO-18



Dimensions	mm	
	Minimum	Maximum
A	10.7	10.9
B	7.7	7.9
C	2.6	2.8
D	0.66	0.86
F	3.1	3.3
G	4.48	4.68
H	2	2.2
J	1.35	1.55
K	16.1	16.3
Q	3.7	3.9
R	0.4	0.6
V	1.17	1.37

Dimensions : Millimetres



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Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector - base voltage	-300	V
V_{CEO}	Collector - emitter voltage	-300	V
V_{EBO}	Emitter - base voltage	-3	V
I_C	Collector current - continuous	-0.5	A
P_C	Collector power dissipation $T_C = 25^\circ\text{C}$	20	W
T_j	Junction temperature	150	$^\circ\text{C}$
T_{stg}	Storage temperature range	-65 to 150	$^\circ\text{C}$

Thermal Characteristics

Symbol	Parameter	Maximum	Unit
$R_{th\ j-c}$	Thermal resistance, junction to case	6.25	$^\circ\text{C/W}$

Electrical Characteristics ($T_C = 25^\circ\text{C}$ Unless Otherwise Specified)

Symbol	Parameter	Conditions	Minimum	Maximum	Unit
$V_{CEO(SUS)}$	Collector - emitter sustaining voltage	$I_C = -1\text{ mA}$; $I_B = 0$	-300	-	V
$V_{(BR)\ CBO}$	Collector - base breakdown voltage	$I_C = -1\text{ mA}$; $I_E = 0$	-300	-	V
$V_{(BR)\ EBO}$	Emitter - base breakdown voltage	$I_E = -1\text{ mA}$; $I_C = 0$	-3	-	V
$V_{CE(sat)}$	Collector - emitter saturation voltage	$I_C = -50\text{ mA}$; $I_B = -5\text{ mA}$	-	-1	V
I_{CBO}	Collector cut off current	$V_{CB} = -300\text{ V}$; $I_E = 0$	-	-0.1	mA
I_{EBO}	Emitter cut off current	$V_{EB} = -3\text{ V}$; $I_C = 0$	-	-0.1	mA
h_{FE}	DC current gain	$I_C = -50\text{ mA}$; $V_{CE} = -10\text{ W}$	100	240	-

Part Number Table

Description	Part Number
Silicon NPN Power Transistor	MJE350

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