22/10/12 V1.0

multicomp





Pin Configuration

- 1. Emitter
- 2. Base
- 3. Collector

Features:

- · Devices with breakdown voltages of 160V minimum
- NPN Silicon High Voltage Power Transistors

Absolute Maximum Ratings:

(T_a = 25°C unless otherwise specified)

Characteristic	Symbol	Value	Unit	
Collector Base Voltage	V _{CBO} 300			
Collector Emitter Voltage	V _{CES}	300	V	
Emitter-Base Voltage	V _{EBO}	5		
Collector Current Continuous	Ι _c	100	•	
Collector Current-Peak	I _{CM}	300	A	
Power Dissipation at $T_a = 25^{\circ}C$ Derate above 25°C	D	1 5.7	W	
Power Dissipation at T _C = 25°C Derate above 25°C	P _D	5 28.57	mW/°C	
Operating Storage Temperature Range	T _j , T _{stg}	-65 to +200	°C	
Thermal Resistance				
Junction to Ambient in Free Air	R _{th(j-a)} 175		°C/W	
Junction to Case	R _{th(j-c)}	35	C/W	

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Electrical Characteristics:

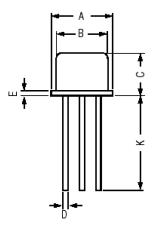
(T_a = +25°C unless otherwise specified)

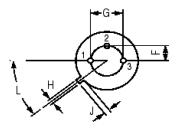
Parameter	Symbol	Test Condition		Unit
Collector Emitter Voltage	V _{CEO}	I _C = 10mA, I _B = 0	>300	
Collector Base Voltage	V _{CBO}	I _C = 100μΑ, I _E = 0	>300	V
Emitter Base Voltage	V _{EBO}	I _E = 100μΑ, I _C = 0	>5	
Collector Cut off Current	I _{CBO}	V _{CBO} = 250V, I _E = 0	<50	nA
DC Current Gain	h _{FE}	I _C = 30mA, V _{CE} = 10V	25	-
Collector Emitter Saturation Voltage	V _{CE(Sat)}	I _C = 30mA, I _B = 6mA	1	V

Dynamic Characteristics

Transition Frequency	f _t	I _C = 15mA, V _{CE} = 10V, f = 100MHz	75	MHz
Collector Base Capacitance	C _{ob}	V _{CB} = 30V, I _E = 0, f = 1MHz	2.5	рF

TO-39 Metal Can Package





Dim.	Min.	Max.
A	8.5	9.39
В	7.74	8.5
С	6.09	6.6
D	0.4	0.53
E	-	0.88
F	2.41	2.66
G	4.82	5.33
Н	0.71	0.86
J	0.73	1.02
K	12.7	-
L	42°	48°
Dimensione : Millimetree		

Dimensions : Millimetres

Pin Configuration

- 1. Emitter
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Part Number Table

Description	Part Number	
Transistor, NPN, TO-39	BF259	

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