High Voltage Power Transistor 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:

 $(T_a = 25^{\circ}C \text{ unless otherwise specified})$

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	I _C	100	Δ.
Collector Current-Peak	I _{CM}	300	A
Power Dissipation at T _a = 25°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/M
Junction to Case	R _{th(j-c)}	35	°C/W





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Electrical Characteristics:

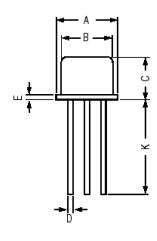
(T₂ = +25°C unless otherwise specified)

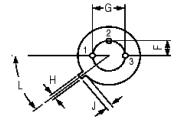
Parameter	Symbol	Test Condition		Unit
Collector Emitter Voltage	V _{CEO}	I _C = 10mA, I _B = 0	>300	
Collector Base Voltage	V _{CBO}	I _C = 100μA, I _E = 0	>300	V
Emitter Base Voltage	V _{EBO}	I _E = 100μA, I _C = 0	>5	
Collector Cut off Current	I _{CBO}	V _{CBO} = 250V, I _E = 0	<50	nA
DC Current Gain	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	pF

TO-39 Metal Can Package





Dim.	Min.	Max.
Α	8.5	9.39
В	7.74	8.5
С	6.09	6.6
D	0.4	0.53
Е	-	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°

Dimensions: Millimetres

Pin Configuration

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

Part Number Table

Description	Part Number		
Transistor, NPN, TO-39	BF259		

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