





Pin Configuration

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

Features:

- · High performance, low frequency devices typically with current ratings 1A. Up to 1W power dissipation
- Silicon power switching transistors
- Medium power amplifier and switching applications

Absolute Maximum Ratings:

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

Characteristic	Symbol	Value	Unit		
Collector Base Voltage	V _{CBO}	-100			
Collector-Emitter Voltage	V _{CEO}	-75	V		
Emitter-Base Voltage	V_{EBO}	-7			
Collector Current Continuous	I _C	-2	^		
Base Current	I _B	-1	А		
Power Dissipation at T _a = 25°C Derate above 25°C	Ь	1 5.71	W		
Power Dissipation at T _C = 25°C Derate above 25°C	P _D	10 57.14	mW/°C		
Operating Temperature	T_J	200	°C		
Storage Temperature Range	T _{stg}	-65 to +200			

Thermal Resistance

Junction to Ambient	$R_{th(j-a)}$	175	°CAM
Junction to Case	R _{th(j-c)}	17.5	°C/W







Electrical Characteristics:

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

Parameter	Symbol	Test Condition	Min.	Max.	Unit
Collector Emitter Voltage	V _{CE} O	I _C = 100mA, I _B = 0	-75	-	V
Oallantar Out off Ourseast		V _{CE} = 70V, V _{BE} = 1.5V, T _C = 150°C		5	mA
Collector Cut off Current	I _{CEX}	V _{CE} = 100V, V _{BE} = 1.5V		400	
Emitter Cut off Current	I _{EBO}	$V_{BE} = 7V, I_{C} = 0$		100	μA
DC Current Gain	*h _{FE}	I _C = 1A, V _{CE} = 2V	10	-	
		I _C = 0.5A, V _{CE} = 4V	30	130	-
Collector Emitter Saturation Voltage	*V _{CE (Sat)}	I _C = 50mA, I _B = 50mA		0.7	V
Base Emitter On Voltage	*V _{BE (On)}	I _C = 50mA, V _{CE} = 4V		1.1	

Dynamic Characteristics

Small Signal Current Gain	h _{fe}	$I_{C} = 50 \text{mA}, V_{CE} = 4 \text{V}, f = 10 \text{MHz}$	5	-	-
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Switching Characteristics

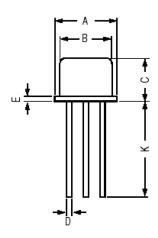
Turn On Time	t _{on}	V _{CC} = 30V, I _C = 500mA, I _{B1} = 50mA		100	
Turn Off Time	t _{off}	$V_{CC} = 30V, I_{C} = 500mA,$ $I_{B1} = I_{B2} = 50mA$	-	1,000	ns

*Pulsed: Pulse Width ≤30µs, Duty Cycle ≤2%



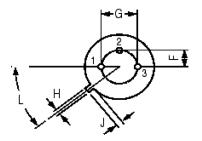


TO-39 Metal Can Package



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



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Part Number Table

Description	Part Number			
Transistor, PNP, TO-39	2N5322			

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