





### **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 <sub>CBO</sub>	100			
Collector-Emitter Voltage	V <sub>CEO</sub>	75	V		
Emitter-Base Voltage	$V_{EBO}$	7			
Collector Current Continuous	I <sub>C</sub>	2	Δ.		
Base Current	I <sub>B</sub>	1	A		
Power Dissipation at T <sub>a</sub> = 25°C Derate above 25°C	D	1 5.71	W		
Power Dissipation at T <sub>C</sub> = 25°C Derate above 25°C	P <sub>D</sub>	10 57.14	mW/°C		
Operating Temperature	$T_J$	200	°C		
Storage Temperature Range	T <sub>stg</sub>	-65 to +200	°C		

### **Thermal Resistance**

Junction to Ambient	$R_{th(j-a)}$	175	°CAM
Junction to Case	R <sub>th(j-c)</sub>	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 <sub>CE</sub> O	I <sub>C</sub> = 100mA, I <sub>B</sub> = 0	75	-	V
O-ll-star Out off Oursent		$V_{CE} = 70V, V_{BE} = 1.5V, T_{C} = 150^{\circ}C$		5	mA
Collector Cut off Current	I <sub>CEX</sub>	V <sub>CE</sub> = 100V, V <sub>BE</sub> = 1.5V	-	100	μA
Emitter Cut off Current	I <sub>EBO</sub>	$V_{BE} = 7V, I_{C} = 0$			
	*h <sub>FE</sub>	I <sub>C</sub> = 1A, V <sub>CE</sub> = 2V	$I_C = 1A, V_{CE} = 2V$ 10 - $I_C = 0.5A, V_{CE} = 4V$ 30 130		_
DC Current Gain		I <sub>C</sub> = 0.5A, V <sub>CE</sub> = 4V			
Collector Emitter Saturation Voltage	*V <sub>CE (Sat)</sub>	I <sub>C</sub> = 50mA, I <sub>B</sub> = 50mA		0.7	V
Base Emitter On Voltage *V <sub>BE (On)</sub>		I <sub>C</sub> = 50mA, V <sub>CE</sub> = 4V	-	1.1	]
Dynamic Characteristics					

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

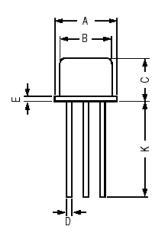
Turn On Time	t <sub>on</sub>	V <sub>CC</sub> = 30V, I <sub>C</sub> = 500mA, I <sub>B1</sub> = 50mA		100	
Turn Off Time	t <sub>off</sub>	$V_{CC} = 30V, I_{C} = 500mA,$ $I_{B1} = I_{B2} = 50mA$	-	1,000	ns

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



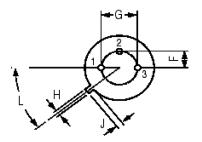


## **TO-39 Metal Can Package**



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	-
Ĺ	42°	48°

Dimensions: Millimetres



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### **Part Number Table**

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

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