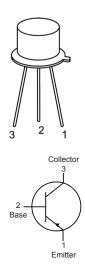
Bipolar Transistor



RoHS Compliant





Description:

A silicon epitaxial PNP planar transistor in a TO-39 type package designed for use as drivers for high power transistors in general purpose amplifier and switching circuits.

Maximum Ratings:

Characteristic	Symbol	Rating	Unit	
Collector - Emitter Voltage	V _{CEO}	- 60		
Collector - Base Voltage	I _E	00	V	
Emitter - Base Voltage		7		
Collector Current	'C	1	А	
Base Current	I _B	200	mA	
Total Device Dissipation (T _C = +25°C)	D	6	W	
Total Device Dissipation(T _A = +25°C)	P _{tot}	1	VV	
Operating Junction Temperature	T_{J}	+200	°C	
Storage Temperature Range	T _{stq}	-65 to +200		
Thermal Resistance, Junction-to-Case	on-to-Case R _{thJC}		°C/W	

Bipolar Transistor

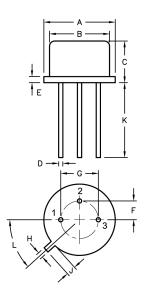


Electrical Characteristics: (T_A = +25°C Unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Max	Unit
	I _{CBO}	$V_{CB} = 60V, I_{E} = 0$		100	μA
Collector Cutoff Current	I _{CEO}	$V_{CE} = 40V, I_{B} = 0$		1	mA
	I _{CEV}	$V_{CE} = 60V, V_{BE} = -1.5V$	-	100	μA
		$V_{CE} = 40V, V_{BE} = -1.5V, T_{C} = +150^{\circ}C$		1	mA
Emitter Cutoff Voltage	I _{EBO}	$V_{EB} = 4V, I_{C} = 0$		500	μA
Collector - Emitter Sustaining Voltage	V _{CEO(sus)}	I _C = 100mA, I _B = 0, (Note1)	60	-	
Collector - Emitter Saturation Voltage	V _{CE(sat)}	$I_{\rm C}$ = 1A, $I_{\rm B}$ = 125mA, (Note1)		0.6	V
Base-Emitter On Voltage	V_{BE}	$V_{CE} = 1V, I_{C} = 250mA$	-	1	
DC Current Gain	h	I _C = 250mA, V _{CE} = 1V, (Note 1)	30	150	
DC Current Gain	h _{FE}	I _C = 1A, V _{CE} = 1V, (Note 1)	10		_
Transition Frequency	f _t	V _{CE} = 10V, I _C = 100mA, f = 1MHz	3	_	MHz
Collector - Base Capactiance	C _{cbo}	V _{CB} = 10V, I _E = 0, f = 0.1MHz	-	100	pF
Small - Signal Current Gain	h _{fe}	V_{CE} = 10V, I_{C} = 50mA, f = 1kHz	25	-	-

Note

1. Pulse Test : Pulse Width ≦300µs, Duty Cycle ≦1%



Dimensions	Α	В	С	D	E	F	G	Н	I	J	K
Min.	8.5	7.74	6.09	0.4	-	2.41	4.82	0.71	0.73	12.7	42°
Max.	9.39	8.5	6.6	0.53	0.88	2.66	5.33	0.86	1.02	-	48°

Dimensions: Millimetres

Pin Configuration:

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

Part Number Table

Description	Part Number				
Transistor, PNP, 1A, 60V, TO-39	2N4235				

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