Medium Power Transistor multicomp

Absolute Maximum Ratings:

(T_a = 25°C unless otherwise specified)

ratings 2A. Up to 1W power dissipation • PNP Epitaxial Planar Silicon Transistors

· High performance, low frequency devices typically with current

Characteristic	Symbol	Value	Unit			
Collector Base Voltage	V _{CBO}	350	V			
Collector-Emitter Voltage	V _{CEO (sus)}	300				
Collector-Emitter Voltage R_{BE} = 100 Ω	V _{CER}		V			
Emitter-Base Voltage	V _{EBO}	6				
Collector Peak Current	I _{CM}	1	A			
Base Current	I _B	0.5				
Power Dissipation at $T_a = 25^{\circ}C$ at $T_C 25^{\circ}C$	P _{tot}	1 10	W			
Operating Storage Temperature Range	T _J , T _{stg}	-65 to +200	°C			
Thermal Resistance						
Junction to Ambient	R _{th(j-a)}	17.5	°C/W			
		17.5	L C/VV			

R_{th(j-c)}





Pin Configuration

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

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Junction to Case

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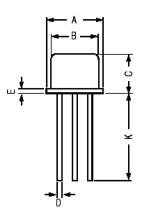
Electrical Characteristics:

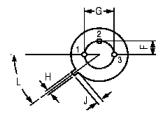
(T_a = +25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min.	Max.	Unit
Collector Cut off Current P = 1000	I _{CBO}	V _{CB} = 40V, I _E = 0		100	nA
Collector-Cut off Current R_{BE} = 100 Ω	I _{CER}	V _{CE} = 70V	-	10	μA
Collector-Emitter Voltage V_{CEO}^* $I_C = 10mA, I_B = 0$		60		V	
Emitter-Base Voltage	V_{EBO}	Ι _Ε = 100μΑ, Ι _C = 0	5	_	V
DC Current Gain	h _{FE} *	I _C = 500mA, V _{CE} = 4V	40	250	-
Collector Emitter Saturation Voltage $V_{CE(Sat)}^{*}$ I _C = 1,000mA, I _B = 100mA			1	V	
Base Emitter Saturation Voltage	V _{BE(sat)} *	I _C = 1A, I _B = 100mA		1.5	V
Transition Frequency	f _t	I _C = 50mA, V _{CE} = 4V, f = 1MHz	50	-	MHz

*Pulse : Pulse Duration = 300µs, Duty Cycle = 1%

TO-39 Metal Can Package





Dim.	Min.	Max.
А	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
К	12.7	-
L	42°	48°

Dimensions : Millimetres

Pin Configuration

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

Part Number Table

Description	Part Number		
Transistor, PNP, TO-39	BC461		

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