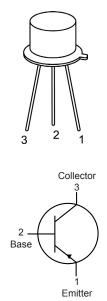
multicomp PRO





Description:

This is a silicon PNP transistor in a TO-39 type case designed primarily for amplifier and switching applications. This device features high breakdown voltage, low leakage current, low capacity, and beta useful over an extremely wide current range.

Maximum Ratings:

Characteristic	Symbol	Rating	Unit		
Collector - Base Voltage	V _{CBO}	40			
Collector - Emitter Voltage	V _{CEO}	40	V		
Emitter - Base Voltage	V _{EBO}	1			
Continuous Collector Current	Ι _C	1	A		
Total Device Dissipation ($T_A = +25^{\circ}C$), Derate above 25°C	P _D	1 5.7	w		
Total Device Dissipation(T _C = +25°C), Derate above 25°C	U U	6 34	mW/°C		
Operating Junction Temperature,	TJ	-65 to +200			
Storage Temperature Range,	T _{stq}	-65 to +200			
Thermal Resistance, Junction-to-Case,	R _{thJC}	29	°C/W		
Lead Temperature (During Soldering,1/16" from case, 60 sec max)	Τ _L	300	°C		

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Electrical Characteristics: $(T_A = +25^{\circ}C \text{ Unless otherwise specified})$

V_{BE(sat)}

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
OFF Characteristics	·		•			
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C = 100mA, I _B = 0	40		-	V
Collector Cut-Off Current	I _{CBO}	$V_{CB} = 40V, I_{E} = 0$		-	100	
Emitter Cut-Off Voltage	I _{EBO}	$V_{BE} = 7V, I_{C} = 0$] -		500	μA
ON Characteristics (Note 1)						
		$V_{CE} = 1V, I_{C} = 100mA$	40		-	
DC Current Gain	h	V_{CE} = 1V, I _C = 250mA	30		150	
	h _{FE}	V _{CE} = 1V, I _C = 500mA	20			-
		V _{CE} = 1V, I _C = 1A	10	-	-	
Collector-Emitter Saturation Voltage V _{CE}		I _C = 1A, I _B = 125mA			0.6	

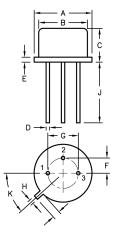
Base-Emitter On Voltage Small-Signal Characteristics

Small-Signal Current Gain	h _{fe}	V _{CE} = 10V, I _C = 50mA, f = 1KHz	25	-	-	-
Output Capactiance	C _{cbo}	V _{CB} = 10V, f = 0.1MHz			100	pF
Input Capactiance	C _{ibo}	V _{BE} = 500mV, f = 1MHz	-	-	110	рF

I_C = 1A, I_B = 100mA

Note:

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



Pin Configuration:

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

Dimensions	Α	В	С	D	Е	F	G	н	I	J	к
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

1.5

Part Number Table

Description	Part Number				
Transistor,PNP,3A,40V,TO39	2N4234				

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