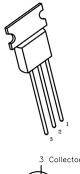
General Purpose Transistor multicomp





RoHS Compliant





NPN

Description:

Silicon Planar Epitaxial, NPN, TO-237 Transistor. Designed for general purpose medium power amplifier and switching circuits.

Absolute Maximum Ratings:

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	50	V
Collector-Emitter Voltage	V _{CEO}	40	V
Emitter-Base Voltage	V _{EBO}	5	V
Continuous Collector Current	I _C	1.5	А
Total Device Disspiration (T _C = +25°C)	P _D	850	W
Operating Junction Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

Electrical Characteristics: (TA = +25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Max.	Unit
OFF Characteristics					
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C = 10mA, I _B = 0, (Note 1)	40	-	V
Collector-Base Breakdown Voltage	V _{(BR)CBO}	I _C = 100μA, I _E = 0	50	-	V

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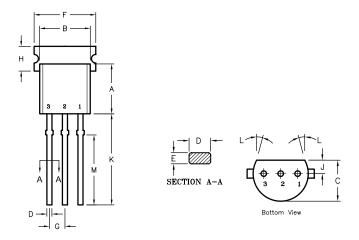
Electrical Characteristics: (TA = +25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Max.	Unit
Collector Cut-Off Current	I _{CBO}	V _{CB} = 50V, I _E = 0	-	100	nA
Emitter Cut-Off Current	I _{EBO}	V _{EB} = 5V, I _C = 0	-	100	nA
ON Characteristics (Note 1)					
DC Current Gain	h _{FE}	V _{CE} = 1V, I _C = 10mA	55	-	-
		V _{CE} = 1V, I _C = 100mA	60	-	-
		V _{CE} = 1V, I _C = 1A 50			-
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = 1A, I _B = 100mA	-	0.5	V
Base-Emitter on Voltage	V _{BE(on)}	I _C = 1A, V _{CE} = 1V	-	1.2	V

Small-Signal Characteristics

Current gain-bandwidth Product	f _T	V _{CE} = 1V, I _C = 50mA, f = 1MHz	50	400	MHz
Output Capacitance	C _{obo}	V _{CB} = 10V, I _E = 0, f = 1MHz	-	20	pF

Note 1: Pulse Test: Pulse width <= 300µS, Duty Cycle <+ 2%



Dim.	Min.	Max.
Α	4.32	5.33
В	4.45	5.2
С	3.18	4.19
D	0.41	0.55
E	0.35	0.5
F	-	5.4
G	1.14	1.4
Н	-	2.54
K	12.7	-
L	5"	-
J	1.14	1.53
III	1.982	2.082

Part Number Table

Description	Part Number		
Transistor, NPN, 1.5A, 40V, TO-237	2N6715		

Dimensions: Millimetres

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