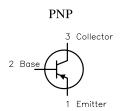
General Purpose Power Transistor





RoHS Compliant



Description:

Plastic, PNP, TO-220 power transistor General purpose amplifier and switching applications

Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Collector-Emitter Voltage	V _{CEO}	100	
Collector-Base Voltage	V _{CBO}	115	V
Emitter-Base Voltage	V _{EBO}	5	
Continuous Collector Current	I _c	2	А
Base Current = I_B Total Device Dissipation at $T_c = +25^{\circ}C$ Derate above $+25^{\circ}C = 0.24 \text{mW}/^{\circ}C$	P _D	36	W
Operating and Storage Junction Temperature Range	T_{j},T_{stg}	-65 to +150	°C

Electrical Characteristics ($T_A = 25$ °C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Max.	Unit
OFF Characteristics					
Collector - Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =30mA, I _B =0 Note 1	100	-	V
Collector - Base Breakdown Voltage	V _{(BR)CBO}	I _C =1mA, I _E =0	115	-	V
Emitter - Base Breakdown Voltage	V _{(BR)EBO}	I _C =1mA, I _E =0	5	-	V
Collector Cut-Off Current	I _{CBO}	V _{CB} =60V, I _B =0	-	0.2	
Conector Cut-On Current	I _{CES}	V _{CE} =100V, V _{BE} =0	-	0.3	mA
Emitter Cut-Off Current	I _{EBO}	V _{EB} =5V, I _C =0	-	1	

General Purpose Power Transistor



Electrical Characteristics ($T_A = 25$ °C unless otherwise specified)

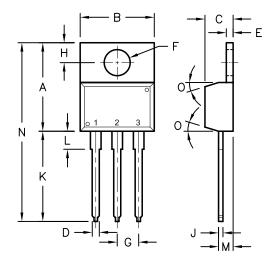
ON Characteristics (Note 1)

DC Current Gain	h _{FE}	V _{CE} =4V, I _C =0.2A	15	-	-
		V_{CE} =4V, I_{C} =1A	40	-	-
Collector - Emitter Saturation Voltage	V _{CE(sat)}	I _C =1A, I _B =0.2A	-	0.7	\/
Base - Emitter On Voltage	V _{BE(on)}	I _C =1A, V _{CE} =4V		1.3	V

Small-Signal Characteristics

Current Gain-Bandwidth Product	f _⊤	V _{CE} =10V, I _C =0.2A, f=1MHz	3	1	MHz
Small-Signal Current Gain	h _{fe}	V _{CE} =10V, I _C =0.2A, f=1MHz	20	-	-

Note 1. Pulse Test: Pulse Width ≤300µs, Duty Cycle ≤2%.



Pin Configuration:

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

Dimensions	Min. Max.		
А	14.42	16.51	
В	9.63	10.67	
С	3.56	4.83	
D	-	0.9	
E	1.15	1.4	
F	3.75	3.88	
G	2.29	2.79	
Н	2.54	3.43	
J	-	0.56	
K	12.7	14.73	
L	2.8	4.07	
M	2.03	2.92	
N	-	31.24	
0	7°		

Dimensions : Millimetres

Part Number Table

Description	Part Number	
Transistor, Plastic, PNP, 2A, 100V, TO-220	BD240C	

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