



Description:

PNP Silicon power transistor in a TO-3 package. Designed for medium-speed switching and amplifier applications.

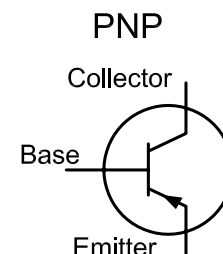
Features:

- Excellent safe operating areas
- h_{fe} (Min.) 25 and 50 @ $I_c = 1A$

Absolute Maximum Ratings:

Characteristic	Symbol	Rating
Collector - Base Voltage	V_{CB0}	80V
Collector - Emitter Voltage	V_{CEO}	80V
Emitter - Base Voltage	V_{EBO}	7V
Continuous Collector Current	I_c	10A
Base Current Continuous	I_B	4A
Total Device Dissipation ($T_c = +25^\circ C$) Derate above $25^\circ C$	P_D	150W 0.857mW/ $^\circ C$
Operating Junction Temperature Range	T_J	$-65^\circ C$ to $+200^\circ C$

RoHS
Compliant



Electrical Characteristics ($T_A = 25^\circ C$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Max.	Unit
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OFF Characteristics

Collector - Emitter Breakdown Voltage (Note 1)	$V_{(BR)CEO}$	$I_c = 200mA, I_B = 0$	80	-	V
Collector Cut-off Current	I_{CEV}	$V_{CE} = 80V, V_{EB(off)} = 1.5V$	-	1	mA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = 7V, I_c = 0$	-	5	mA

ON Characteristics (Note 1)

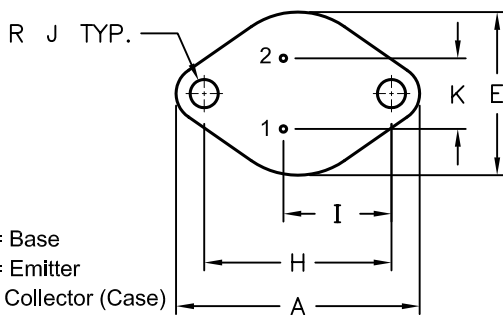
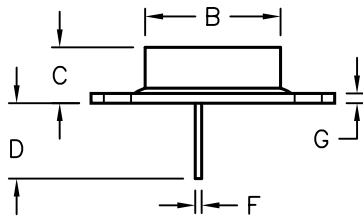
DC Current Gain	h_{FE}	$V_{CE} = 2V, I_c = 1A$	50	180	-
		$V_{CE} = 2V, I_c = 3A$	30	-	-
Collector - Emitter Saturation Voltage	$V_{CE(sat)}$	$I_c = 5A, I_B = 0.5A$	-	1	V
Base - Emitter on Voltage	$V_{BE(on)}$	$I_c = 5A, I_B = 2A$	-	1.8	
		$I_c = 10A, I_B = 4A$	-	4	

Small-Signal Characteristics

Current Gain-Bandwidth Product	f_T	$V_{CE} = 10V, I_c = 500mA, f = 1MHz$	4	-	MHz
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Note 1: Pulse Test : Pulse Width $\leq 300\mu s$, Duty Cycle $\leq 2\%$

Diagram



Pin 1 = Base
Pin 2 = Emitter

Collector (Case)

Dim.	Min.	Max.
A	38.75	39.96
B	19.28	22.23
C	7.96	9.23
D	11.18	12.19
E	25.2	26.67
F	0.92	1.09
G	1.38	1.62
H	29.9	30.4
I	16.64	17.3
J	3.88	4.36
K	10.67	11.18

Dimensions : Millimetres

Part Number Table

Description	Part Number
Power Transistor, Silicon, TO-3, PNP, 10A, 80V	2N3792

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