PNP High Power Silicon Transistor VCEO 140V, Ic 12A, 100W

multicomp PRO

RoHS Compliant



Applications

This is designed for use in general-purpose amplifier and switching application.

Features

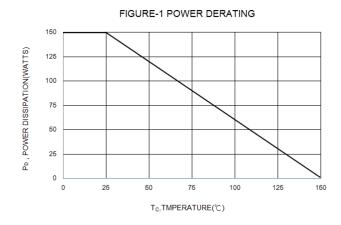
- Recommend for 100W High Fidelity Audio Frequency Amplifier Output Stage
- Complimentary 2SD425

TO-3

Maximum Ratings and Thermal Characteristics

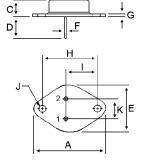
Characteristics	Symbol	Rating	Unit
Collector-Emitter Voltage	VCEO	140	
Collector-Base Voltage	Vсво	140] v
Emitter-Base Voltage	VEB	5	1
Collector Current	Ic	12	1 ,
Emitter Current	lE	12	A
Total Device Dissipation @ Tc = 25°C	PD	100	W
Operating and Storage Junction Temperature Range	ТJ, Tsтg	-55 to +150	°C
Thermal Resistance Junction to Case	Rejc	1.75	°C/W

Thermal Characteristics



TO-3





Pin

- 1. Base
- 2. Emitter

Collector (case)

DIM	MILLIMETRES		
DIIVI	MIN	MAX	
Α	38.75	39.96	
В	19.28	22.23	
С	7.96	9.28	
D	11.18	12.19	
Е	25.2	26.67	
F	0.92	1.09	
G	1.38	1.62	
Н	29.9	30.4	
Ι	16.64	17.3	
J	3.88	4.36	
K	10.67	11.18	

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Electrical Characteristics (Tc = 25°C Unless otherwise noted)

Characteristics	Symbol	Min	Max	Unit
Off Characteristics				
Collector - Emitter Breakdown Voltage (Ic = 100mA, IB = 0)	V(BR)CEO	140	-	V
Emitter-Base Breakdown Voltage (IE = 10mA, Ic = 0)	V(BR)EBO	5	-	
Collector - Cutoff Current (VcB = 50V, IE = 0)	Ісво	-	0.1	mA
Emitter Cutoff Current (VBE = 5V, IC = 0)	ІЕВО	-	0.1	
On Characteristics *		,	,	
DC Current Gain (Ic = 2A, VcE = 5V)	hFE	40	140	-
Collector - Emitter Saturation Voltage (Ic = 7A, IB = 0.7A)	VCE(sat)	-	3	V
Base - Emitter On Voltage (Ic = 10A, VcE = 5V)	VBE(on)	-	2.5	

Dynamic Characteristics

Characteristics	Symbol	Min	Max	Unit
Current-Gain-Bandwidth Product (Ic = 2A, VcE = 5V, f=1MHz)	fτ	6(typ)	-	MHz

Note:

Part Number Table

Description	Part Number	
PNP Transistor, 140V, 12A, 100W, TO-3	2SB555	

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^{*}Pulse Test - Pulse width \leq 300 μ s, Duty Cycle \leq 2%