

HIGH-POWER PNP SILICON POWER TRANSISTORS

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

FEATURES

- * Recommend for 100W High Fidelity Audio Frequency Amplifier Output stage
- * complementary 2SD425

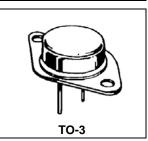
PNP 2SB555

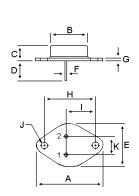
12 AMPERES POWER TRANSISTOR

140 VOLTS 100 WATTS

MAXIMUM RATINGS

Rating	Symbol	2SB555	Unit		
Collector-Emitter Voltage	V _{CEO}	140	V		
Collector-Base Voltage	V _{CBO}	140	V		
Emitter-Base Voltage	V _{EB}	5.0	V		
Collector Current	lc	12	Α		
Emitter Current	Ι _Ε	12	Α		
Total Device Dissipation @ T _C =25°C	P _D	100	W		
Operating and Storage Junction Temperature Range	T_{J},T_{STG}	-55 to +150	°C		



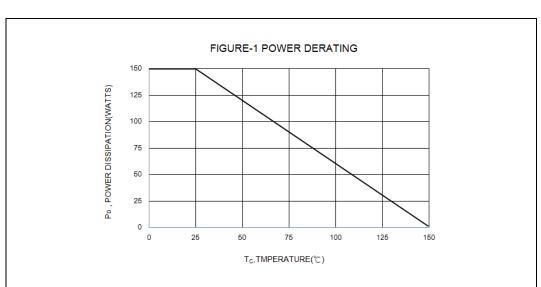


PIN 1.BASE 2.EMITTER COLLECTOR(CASE)

DIM	MILLIMETERS		
ווועו	MIN	MAX	
Α	38.75	39.96	
В	19.28	22.23	
С	7.96	9.28	
D	11.18	12.19	
E	25.20	26.67	
F	0.92	1.09	
G	1.38	1.62	
Н	29.90	30.40	
I	16.64	17.30	
7	3.88	4.36	
K	10.67	11.18	

THERMAL CHARACTERISTICS

Characteristic	Symbol	Мах	Unit
Thermal Resistance Junction to Case	$R_{ heta JC}$	1.75	°C/W





ELECTRICAL CHARATERISTICS (T _C =25°C t	unless otherwise noted	i)		
Characteristic	Symbol	Min.	Max	Unit
OFFCHARACTERISTICS				
Collector-Emitter Breakdown Voltage ($I_C = 100 \text{ mA}$, $I_B = 0$)	$V_{(BR)CEO}$	140		V
Emitter-Base Breakdown Voltage ($I_E = 10 \text{ mA}$, $I_c = 0$)	$V_{(BR)EBO}$	5		V
Collector-Cutoff Current ($V_{CB} = 50 \text{ V}, I_{E} = 0$)	I _{CBO}		0.1	mA
Emitter Cutoff Current (V_{BE} = 5.0 V, I_c = 0)	I _{EBO}		0.1	mA
ON CHARACTERISTICS(1)				
DC current gain ($I_C = 2.0 \text{ A}, V_{CE} = 5.0 \text{ V}$)	h _{FE}	40	140	
Collector-Emitter Saturation Voltage ($I_C = 7.0 \text{ A}$, $I_B = 0.7 \text{ A}$)	$V_{CE(sat)}$		3.0	V
Base-Emitter On Voltage (I _C =7.0 A, V _{CE} =5.0 V)	$V_{BE(on)}$		2.5	V
DYNAMIC CHARATERISTICS				
Current-Gain-Bandwidth Product ($I_C = 2.0 \text{ A}, V_{CE} = 5.0 \text{ V} f = 1.0 \text{ MH}_Z$)	f _⊤	6.0(typ)		MHz

⁽¹⁾ Pulse test: Pulse Width ≤ 300 s, Duty Cycle ≤ 2.0%



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