

HIGH-POWER PNP SILICON POWER TRANSISTORS

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

FEATURES:

- * Recommend for 125W High Fiderity Audio Frequency Amplifier Output stage
- * Complementary to 2SC3281

PNP 2SA1302

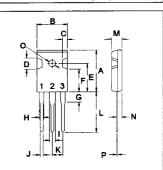
15 AMPERE POWER TRANASISTOR

200 VOLTS 150 WATTS

MAXIMUM RATINGS

Characteristic	Symbol	2SA1302	Unit	
Collector-Emitter Voltage	V _{CEO}	200		
Collector-Base Voltage	V _{CBO}	200	V	
Emitter-Base Voltage	V _{EBO}	5.0	V	
Collector Current - Continuous - Peak	I _C	15 20	A	
Base current	l _B	2.0	А	
Total Power Dissipation @T _C = 25°C Derate above 25°C	P _D	150 1.2	W/°C	
Operating and Storage Junction Temperature Range	T _J ,T _{STG}	-55 to +150	°C	

TO-247(3P)

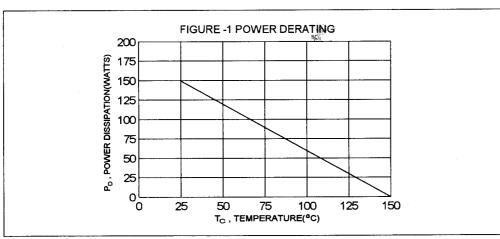


PIN 1.BASE 2.COLLECTOR 3.EMITTER

DIM	MILLIMETERS				
DIIVI	MIN	MAX			
Α	20.63	22.38			
В	15.38	16.20			
С	1.90	2.70			
D	5.10	6.10			
Ε	14.81	15.22			
F	11.72	12.84			
G	4.20	4.50			
Н	1.82	2.46			
I	2.92	3.23			
J	0.89	1.53			
K	5.26	5.66			
L	18.50	21.50			
M	4.68	5.36			
Ν	2.40	2.80			
0	3.25	3.65			
Р	0.55	0.70			

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Thermal Resistance Junction to Case	Rθjc	0.83	°C/W



Unit

Max

ELECTRICAL CHARACTERISTICS ($T_c = 25^{\circ}C$ unless otherwise noted)

Characteristic

Collector-Emitter Breakdown Voltage (I _C = 50 mA, I _B = 0)	V _{(BR)CEO}	200		V
Collector Cutoff Current (V _{CB} = 200 V, I _E = 0)	Ісво		10	uA
Emitter Cutoff Current (V _{EB} = 5.0 V, I _C = 0)	l _{EBO}		10	uA

Symbol

Min

DC Current Gain (I _C = 1.0 A, V _{CE} = 5.0 V) * (I _C = 8.0 A ,V _{CE} = 5.0 V)	hFE(2) hFE	55 35	160	
Collector-Emitter Saturation Voltage (I _C = 10 A, I _B = 1.0 A)	V _{CE(sat)}		3.0	V
Base-Emitter On Voltage (I _C = 8.0 A, V _{CE} =5.0 V)	V _{BE(on)}		1.5	V

DYNAMIC CHARACTERISTICS

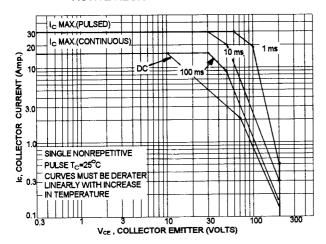
Current-Gain-Bandwidth Product	f _T		MHz
(I _C = 1.0 A, V _{CE} = 5.0 V, f = 1.0 MHz)	•	10	

(1) Pulse Test: Pulse Width =300 us, Duty Cycle ≤ 2.0%

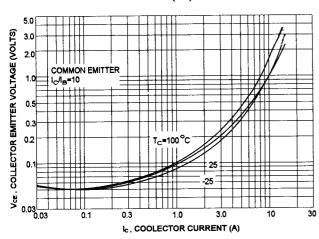
* hFE(2) Classification :

55	R	110	80	0	160

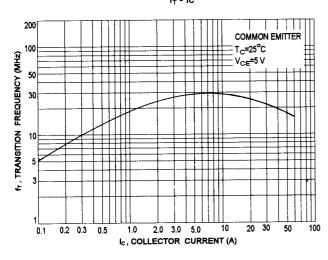
ACTIVE REGION SAFE OPERATING AREA



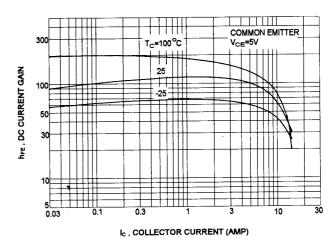
VCE(sat) - Ic



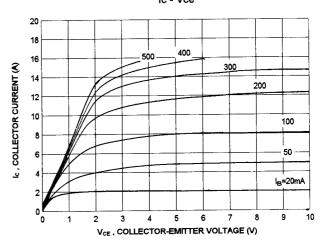
f_T - Ic



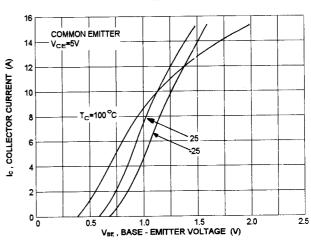
DC CURRENT GAIN



Ic - Vce



Ic - Vbe



This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.