HIGH-POWER PNP SILICON POWER TRANSISTORS

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

FEATURES:

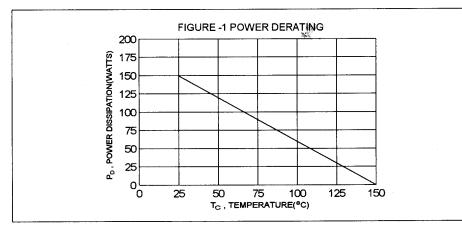
- * Recommend for 125W High Fiderity Audio Frequency Amplifier
- Output stage
- * Complementary to 2SC3281

MAXIMUM RATINGS

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

THERMAL CHARACTERISTICS

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

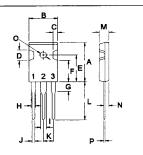




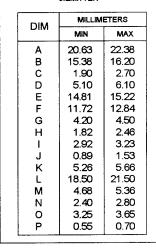
200 VOLTS 150 WATTS



TO-247(3P)



PIN 1.BASE 2.COLLECTOR 3.EMITTER



2SA1302 PNP

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

Characteristic	Symbol	Min	Max	Unit
OFF CHARACTERISTICS	-			
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)	І _{ЕВО}	10		uA

ON CHARACTERISTICS (1)

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

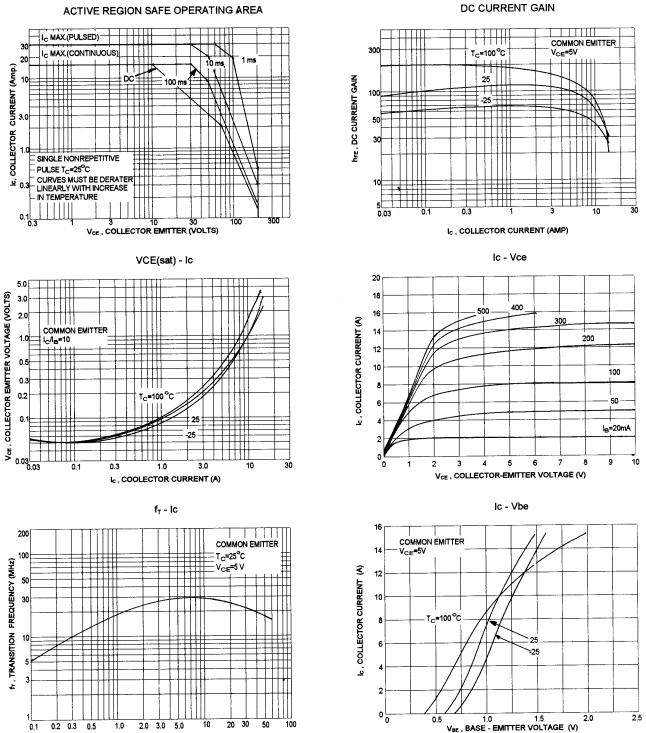
DYNAMIC CHARACTERISTICS

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 \leq 2.0%

* hFE(2) Classification :

55 R 110 80 O 160



ACTIVE REGION SAFE OPERATING AREA

Ic, COLLECTOR CURRENT (A)