

Silicon PNP Power Transistors

2SA1488 2SA1488A

DESCRIPTION

- With TO-220F package
- Complement to type 2SC3851/3851A

APPLICATIONS

- Audio and general purpose

PINNING

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter

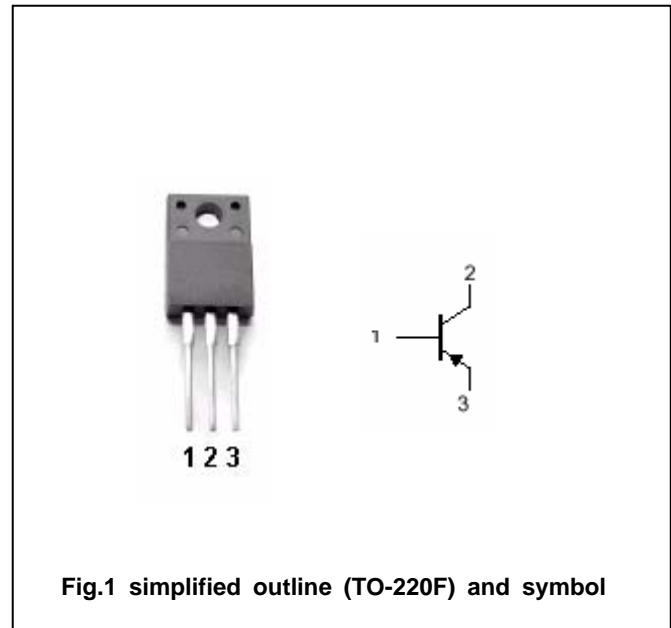


Fig.1 simplified outline (TO-220F) and symbol

Absolute maximum ratings (Ta=25)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	2SA1488	-60	V
		2SA1488A	-80	
V _{CEO}	Collector-emitter voltage	2SA1488	-60	V
		2SA1488A	-80	
V _{EBO}	Emitter-base voltage	Open collector	-6	V
I _C	Collector current		-4	A
I _B	Base current		-1	A
P _C	Collector dissipation	T _C =25	25	W
T _j	Junction temperature		150	
T _{stg}	Storage temperature		-55~150	

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2SA1488 2SA1488A

CHARACTERISTICS

T_j=25 unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	2SA1488	I _C =-25mA ; I _B =0	-60			V
		2SA1488A		-80			
V _{CEsat}	Collector-emitter saturation voltage		I _C =-2.0A;I _B =-0.2A			-0.5	V
I _{CBO}	Collector cut-off current	2SA1488	V _{CB} =-60V;I _E =0			-0.1	mA
		2SA1488A	V _{CB} =-80V;I _E =0				
I _{EBO}	Emitter cut-off current		V _{EB} =-6V; I _C =0			-0.1	mA
h _{FE}	DC current gain		I _C =-1A ; V _{CE} =-4V	40			
f _T	Transition frequency		I _C =-0.2A ; V _{CE} =-12V		15		MHz
C _{OB}	Output capacitance		I _E =0 ; V _{CB} =-10V;f=1MHz		90		pF
Switching time							
t _{on}	Turn-on time		I _C =-2.0A; I _{B1} =-I _{B2} =-0.2A V _{CC} =-12V ,R _L =6		0.25		μs
t _s	Storage time				0.75		μs
t _f	Fall time				0.25		μs

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PACKAGE OUTLINE

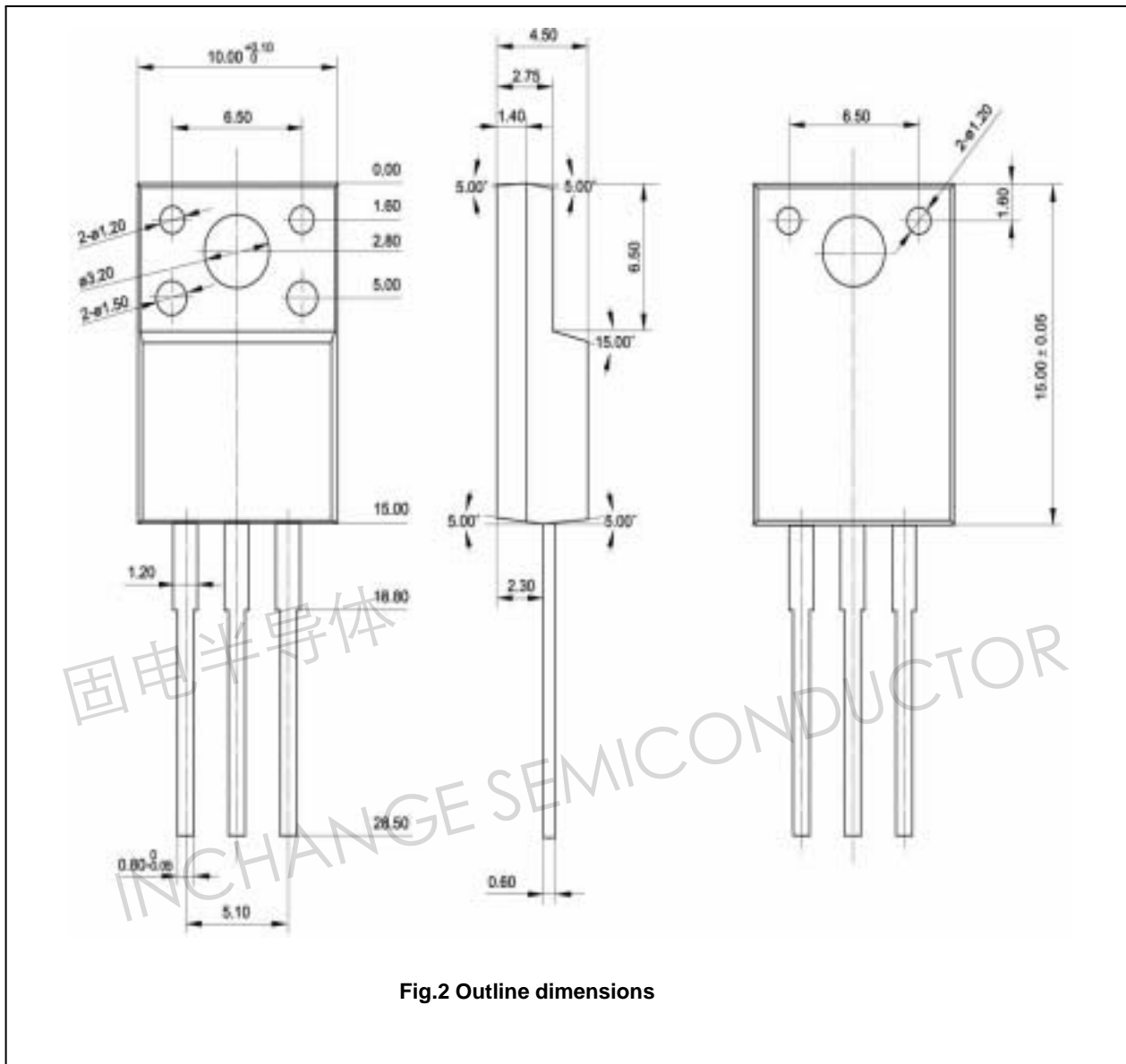


Fig.2 Outline dimensions

Silicon PNP Power Transistors

2SA1488 2SA1488A

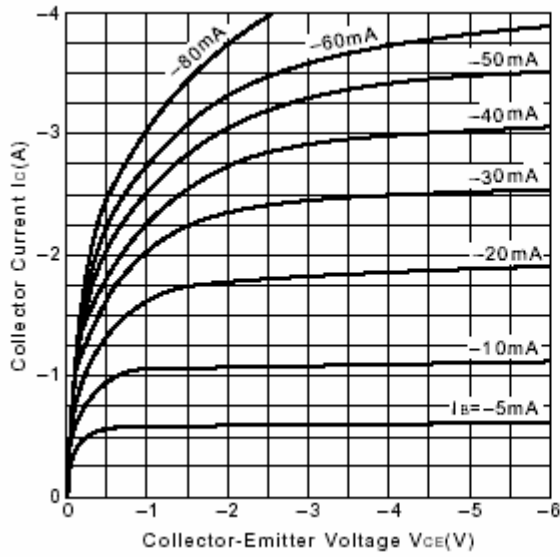


Fig.3 Static Characteristic

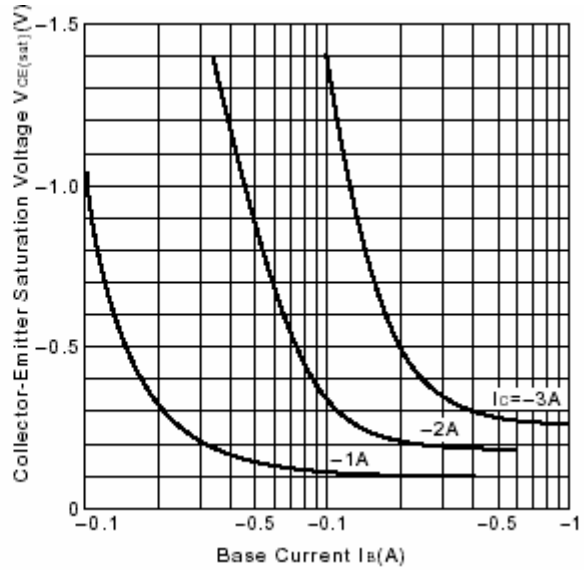


Fig.4 $V_{CE(sat)}$ - I_B Characteristics

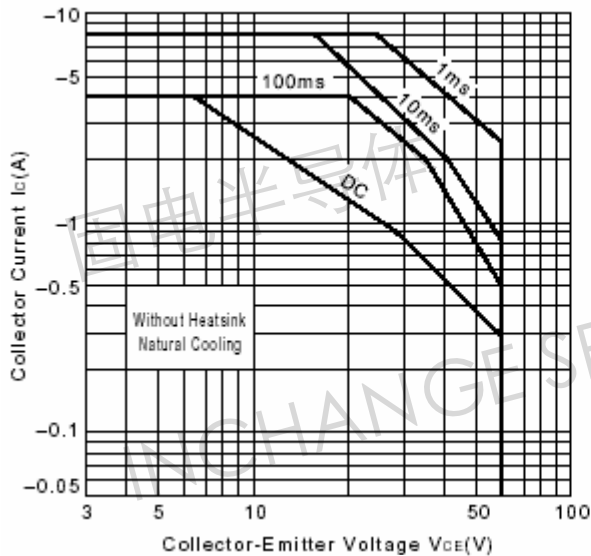


Fig.5 Safe Operating Area

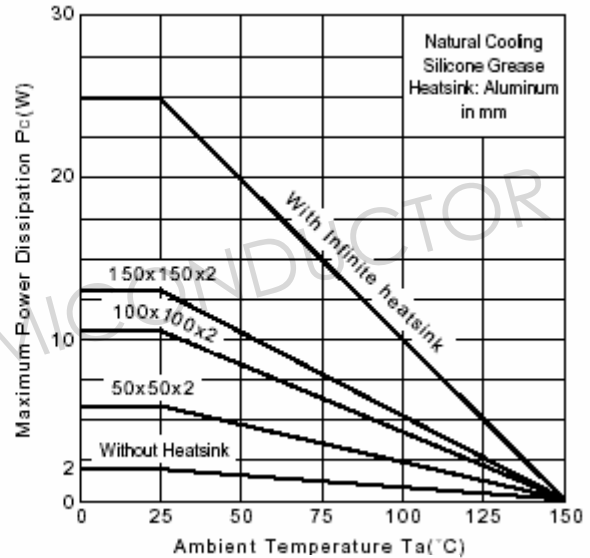


Fig.6 P_c - T_a Derating

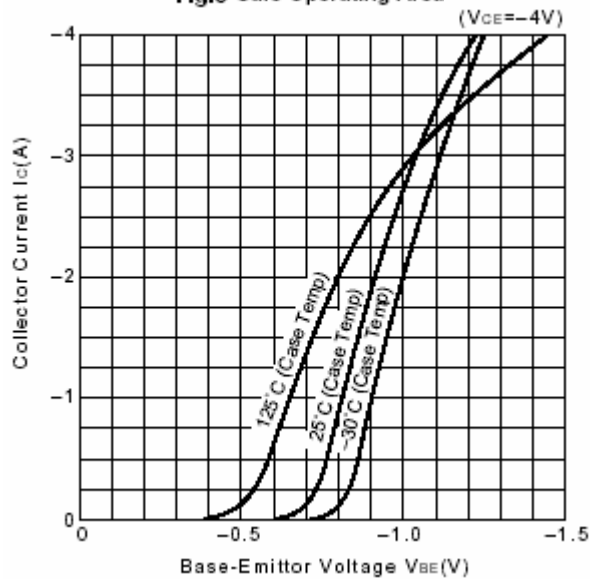


Fig.7 I_C - V_{BE}

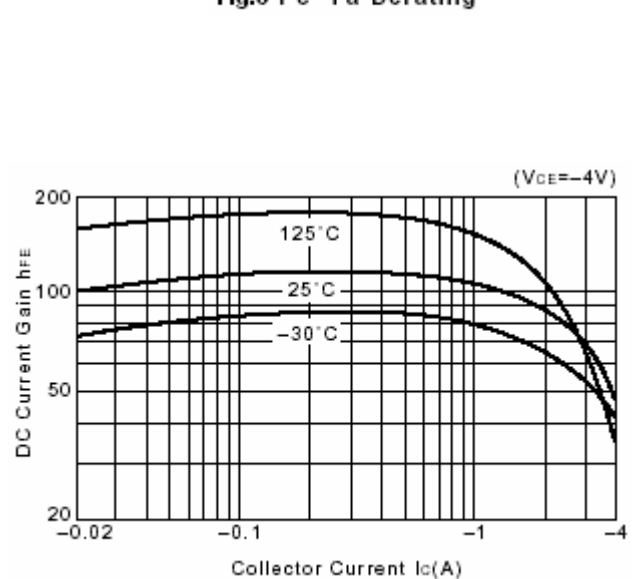


Fig.8 DC current Gain