

Silicon PNP Power Transistors

2SA1673

DESCRIPTION

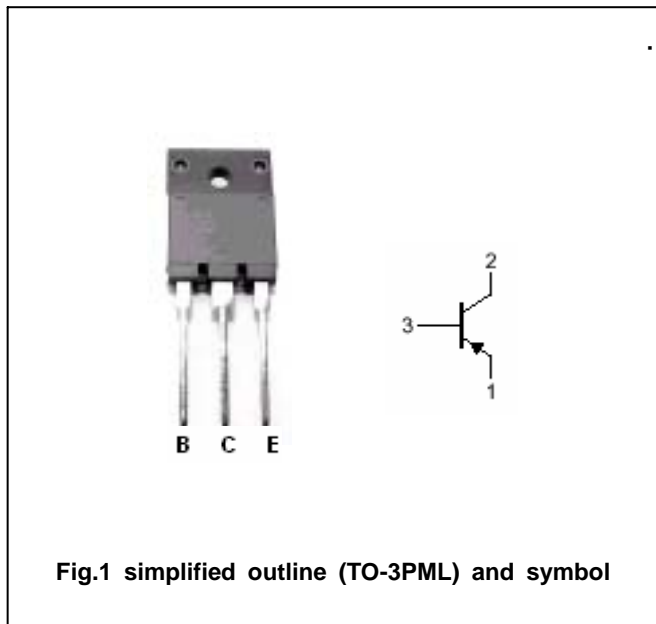
- With TO-3PML package
- Complement to type 2SC4388

APPLICATIONS

- Audio and general purpose

PINNING

PIN	DESCRIPTION
1	Emitter
2	Collector
3	Base



Absolute maximum ratings(Ta=25)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-180	V
V_{CEO}	Collector-emitter voltage	Open base	-180	V
V_{EBO}	Emitter-base voltage	Open collector	-6	V
I_C	Collector current		-15	A
I_B	Base current		-4	A
P_C	Collector power dissipation	$T_C=25$	85	W
T_j	Junction temperature		150	
T_{stg}	Storage temperature		-55~150	

Silicon PNP Power Transistors

2SA1673

CHARACTERISTICS

T_j=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-50mA; I _B =0	-180			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-5 A; I _B =-0.5 A			-2.0	V
I _{CBO}	Collector cut-off current	V _{CB} =-180V; I _E =0			-10	μ A
I _{EBO}	Emitter cut-off current	V _{EB} =-6V; I _C =0			-10	μ A
h _{FE}	DC current gain	I _C =-3A ; V _{CE} =-4V	50		180	
f _T	Transition frequency	I _C =-0.5A ; V _{CE} =-12V		20		MHz
C _{OB}	Output capacitance	I _E =0; V _{CB} =-10V; f=1MHz		500		pF

Switching times

t _{on}	Turn-on time	I _C =-10A; R _L =4 I _{B1} =-I _{B2} =-1A V _{CC} =-40V		0.60		μ s
t _s	Storage time			0.90		μ s
t _f	Fall time			0.20		μ s

◆ h_{FE} classifications

O	P	Y
50-100	70-140	90-180

Silicon PNP Power Transistors

2SA1673

PACKAGE OUTLINE

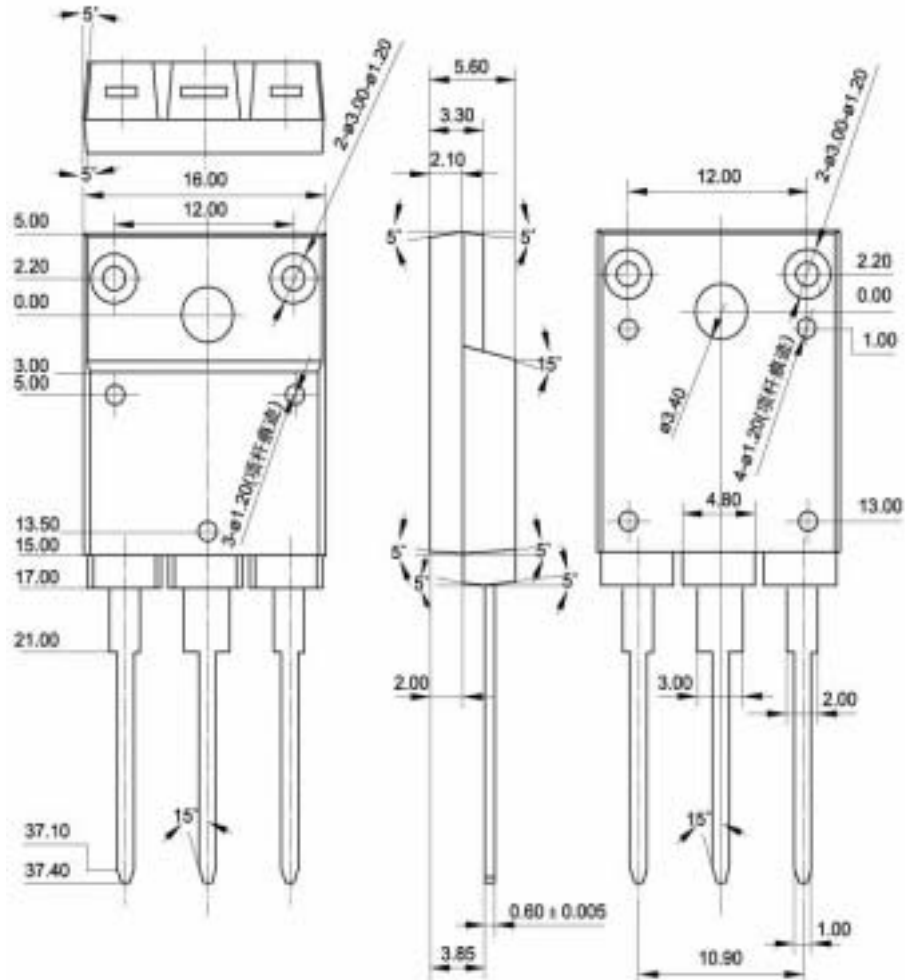


Fig.2 Outline dimensions

Silicon PNP Power Transistors

2SA1673

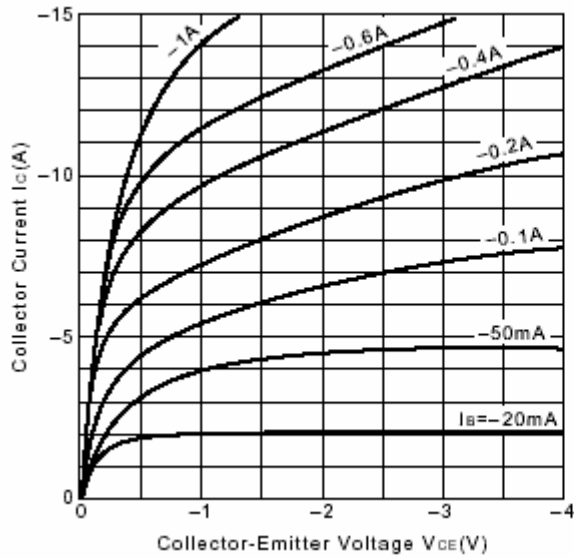


Fig.3 Static Characteristic

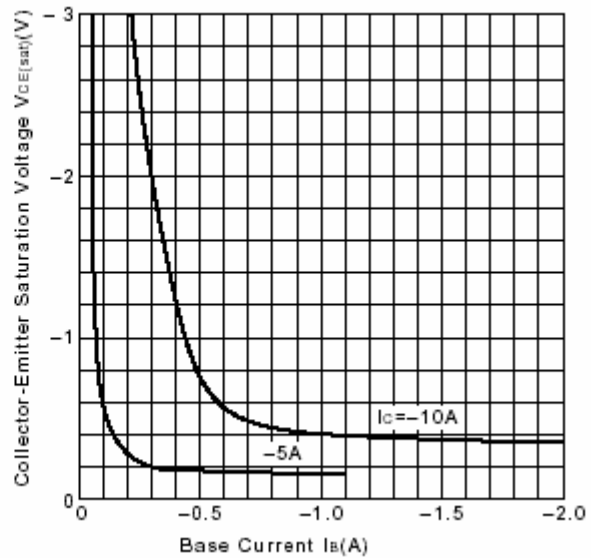


Fig.4 $V_{CE(sat)}$ - I_B Characteristics

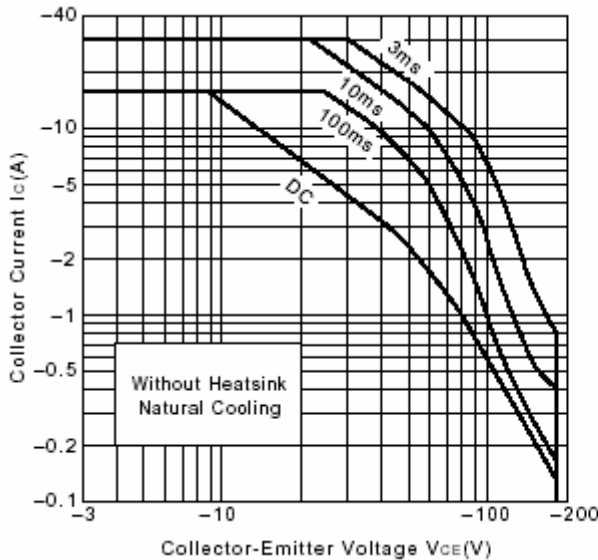


Fig.5 Safe Operating Area

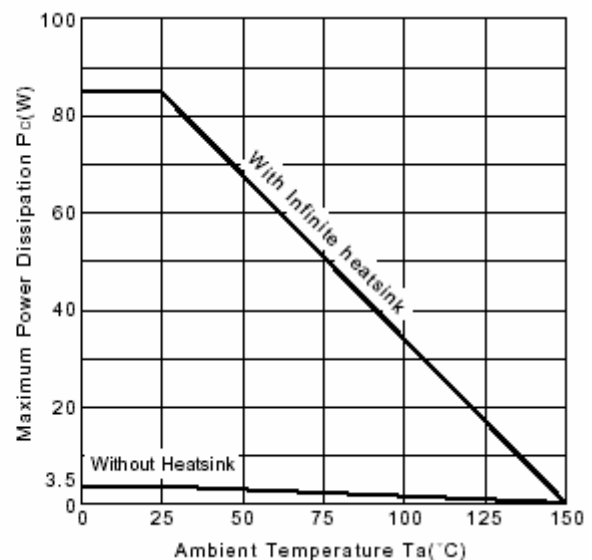


Fig.6 P_c - T_a Derating

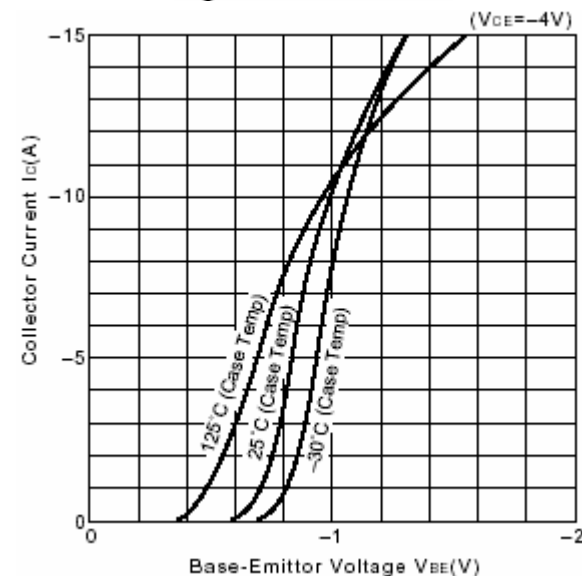


Fig.7 I_C - V_{BE}

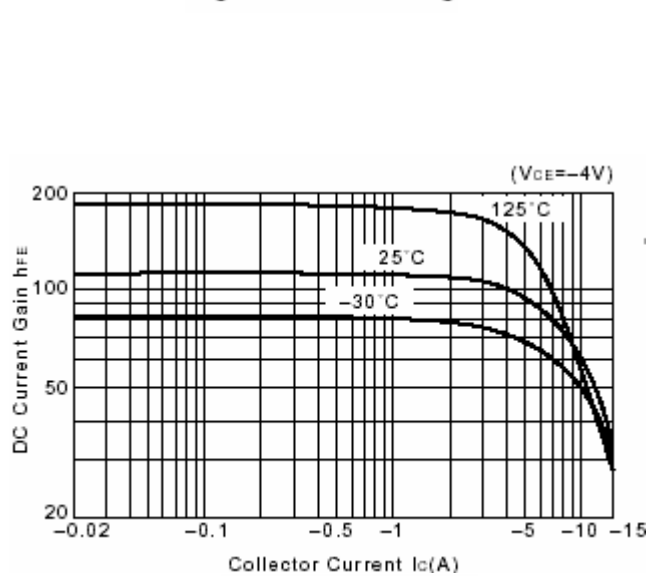


Fig.8 DC current Gain