

Silicon PNP Power Transistors

2SA1695

DESCRIPTION

With TO-3PN package
Complement to type 2SC4468

APPLICATIONS

Audio and general purpose

PINNING

PIN	DESCRIPTION
1	Base
2	Collector;connected to mounting base
3	Emitter

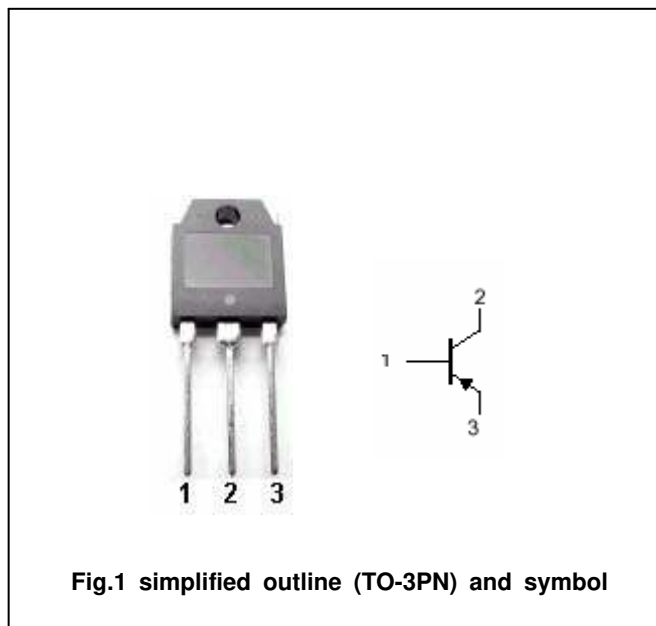


Fig.1 simplified outline (TO-3PN) and symbol

Absolute maximum ratings(Ta=°C)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	-140	V
V _{CEO}	Collector-emitter voltage	Open base	-140	V
V _{EBO}	Emitter-base voltage	Open collector	-6	V
I _C	Collector current		-10	A
I _B	Base current		-4	A
P _C	Collector power dissipation	T _C =25°C	100	W
T _j	Junction temperature		150	°C
T _{stg}	Storage temperature		-55~150	°C

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CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-50mA ; I _B =0	-140			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-5A ; I _B =-0.5A			-0.5	V
I _{CBO}	Collector cut-off current	V _{CB} =-140V ; 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	
C _{OB}	Output capacitance	I _E =0 ; V _{CB} =-10V, f=1MHz		400		pF
f _T	Transition frequency	I _C =-0.5A ; V _{CE} =-12V		20		MHz

Switching times

t _{on}	Turn-on time			0.17		μ s
t _s	Storage time	I _C =-5A; R _L =12 Ω I _{B1} =- I _{B2} =-0.5A V _{CC} =-60V		1.86		μ s
t _f	Fall time			0.27		μ s

◆ h_{FE} Classifications

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

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PACKAGE OUTLINE

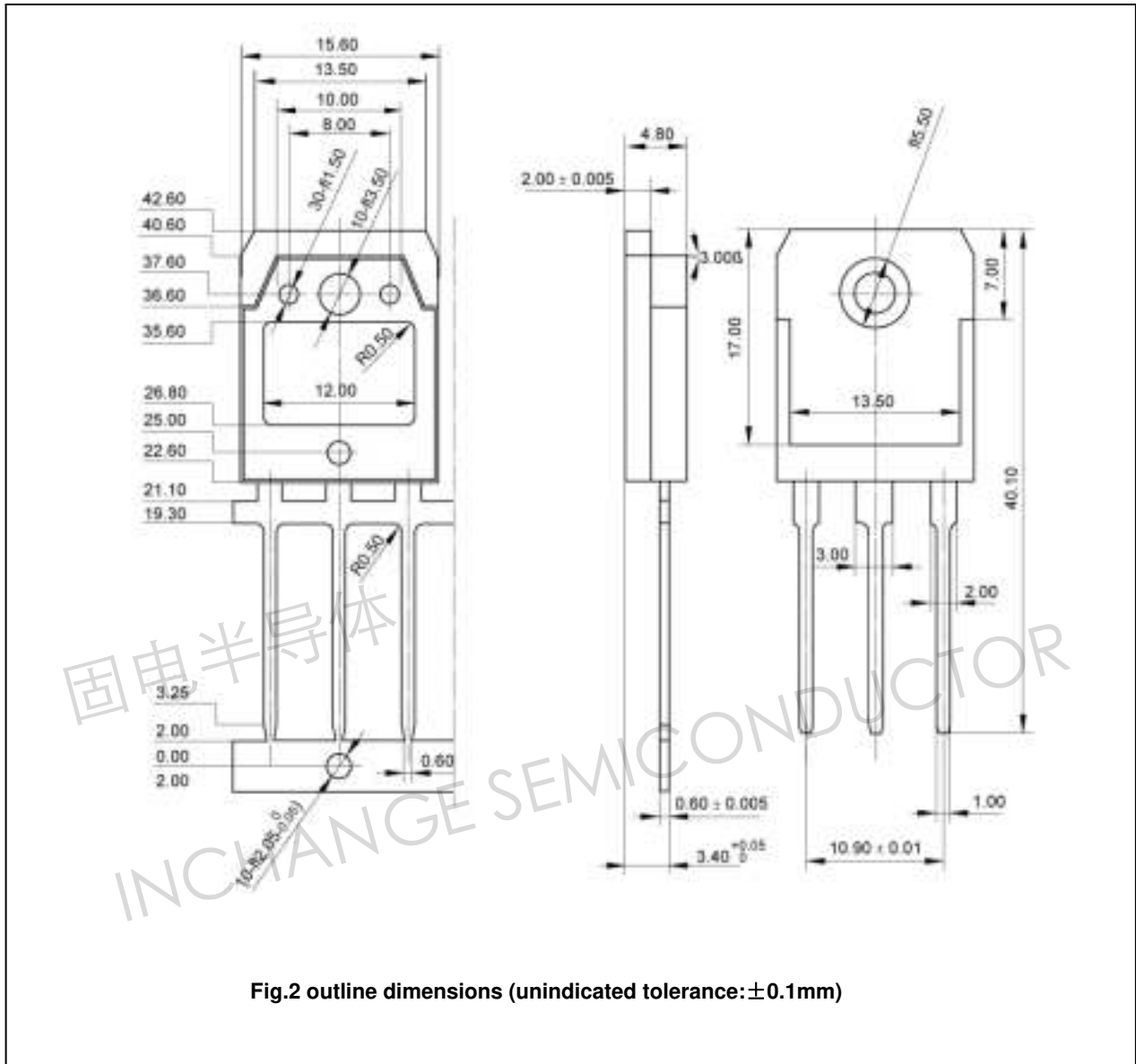


Fig.2 outline dimensions (unindicated tolerance: $\pm 0.1\text{mm}$)

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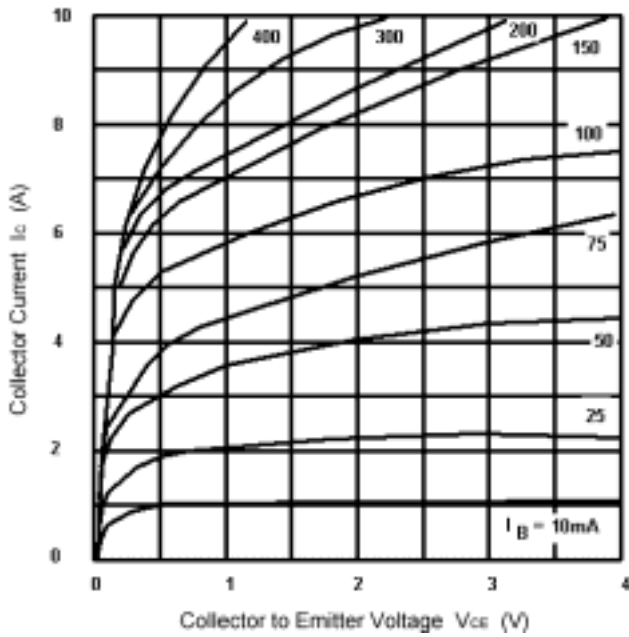


Fig.3 Static Characteristic

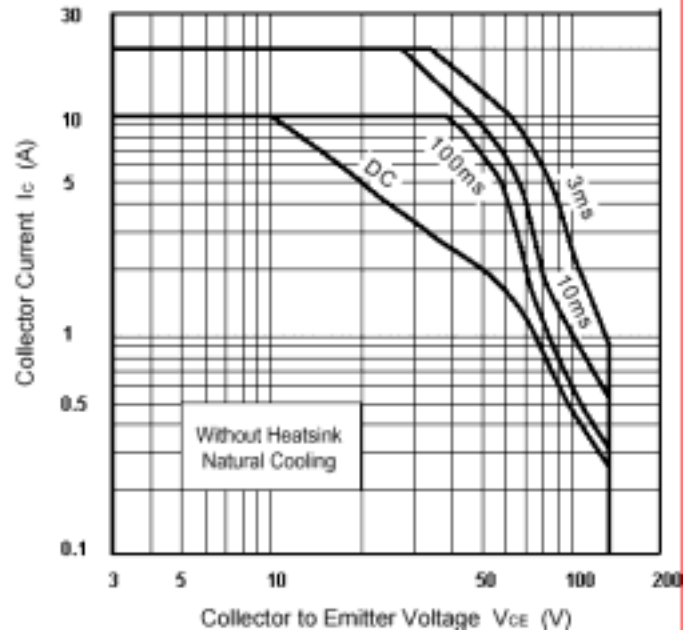


Fig.4 Safe Operating Area

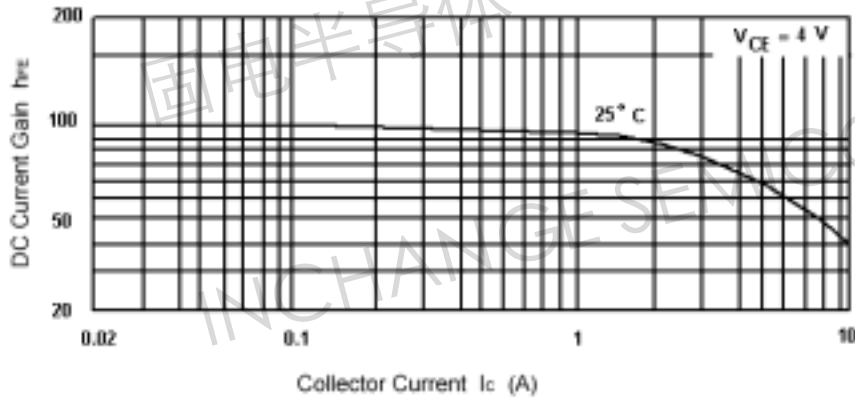


Fig.5 DC current Gain