Silicon NPN Power Transistors 2SC4468

DESCRIPTION

·With TO-3PN package

·Complement to type 2SA1695

APPLICATIONS

·Audio and general purpose

PINNING

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

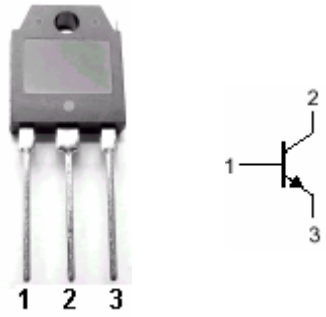

Fig.1 simplified outline (TO-3PN) and symbol

Absolute maximum ratings(Ta=□)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	200	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□	100	W
T_j	Junction temperature		150	□
T_{stg}	Storage temperature		-55~150	□

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CHARACTERISTICS

Tj=25□ 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}=200V; I_E=0			10	μA
I_{EBO}	Emitter cut-off current	V_{EB}=6V; I_C=0			10	μA
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		250		pF
f_T	Transition frequency	I_C=0.5A ; V_{CE}=12V		20		MHz
Switching times						
t_{on}	Turn-on time	I_C=5A;R_L=12Ω I_{B1}=- I_{B2}=0.5A V_{CC}=60V		0.24		μs
t_s	Storage time			4.32		μs
t_f	Fall time			0.40		μs

◆ h_{FE} Classifications

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

PACKAGE OUTLINE

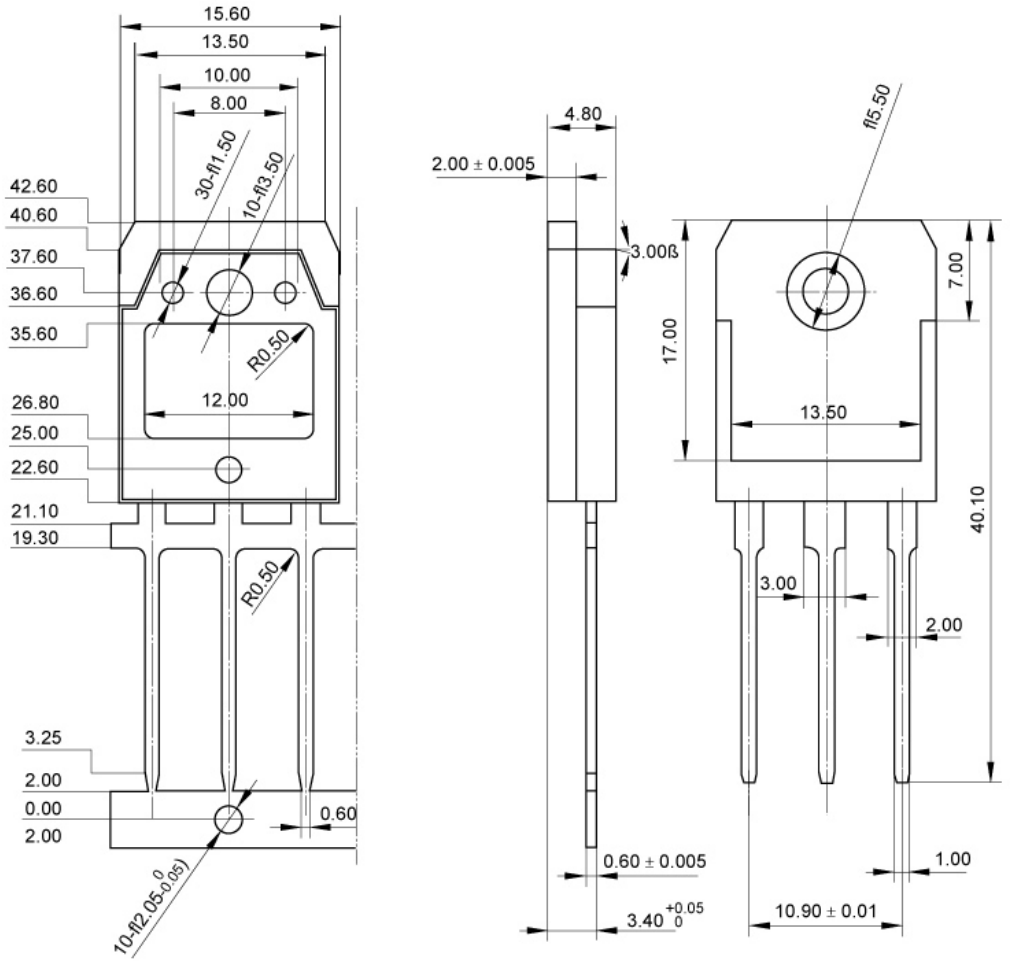

Fig.2 outline dimensions (unindicated tolerance:±0.1mm)

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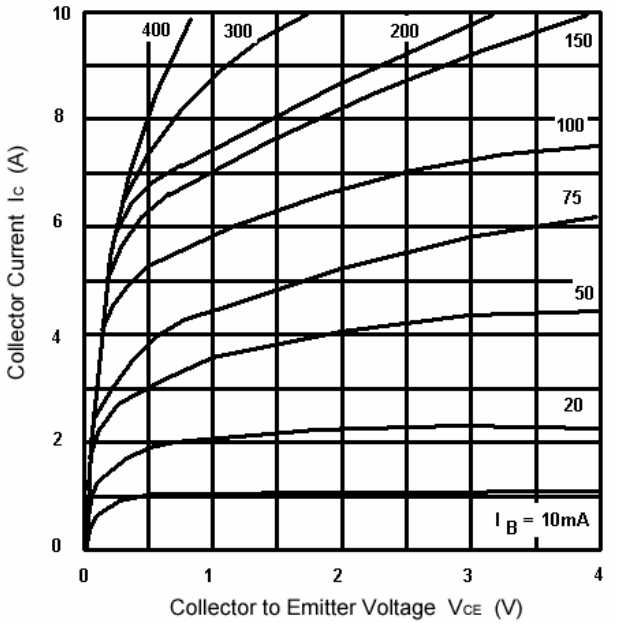

Fig.3 Static Characteristic

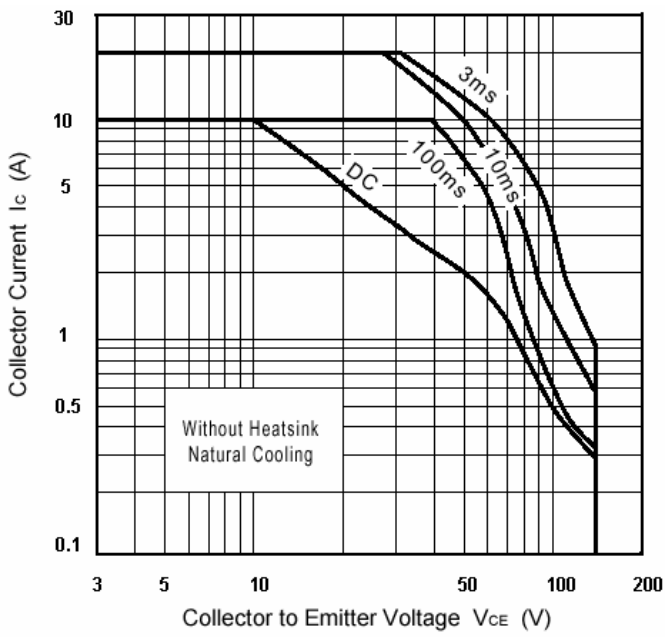

Fig.4 Safe Operating Area

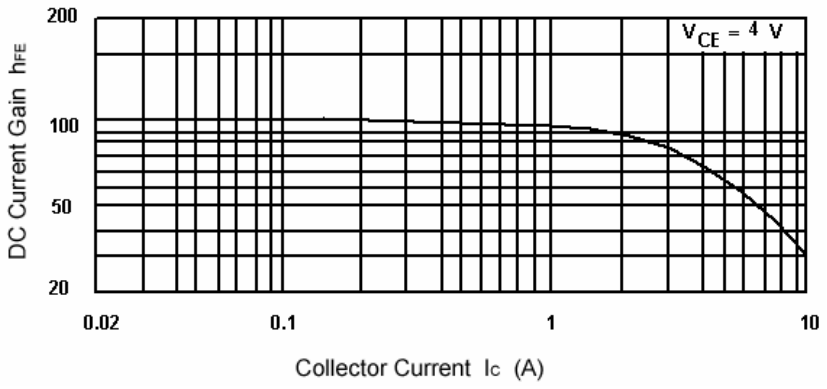

Fig.5 DC current Gain