

Silicon NPN Power Transistors

2SC4468

DESCRIPTION

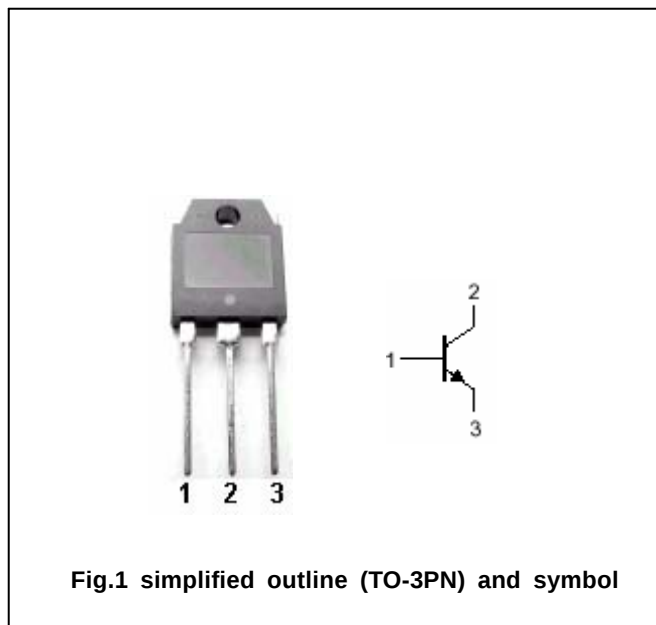
- With TO-3PN package
- Complement to type 2SA1695

APPLICATIONS

- Audio and general purpose

PINNING

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



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	$I_C=5A$; $R_L=12\Omega$ $I_{B1}=-I_{B2}=0.5A$ $V_{CC}=60V$	0.24		μs
t_s	Storage time		4.32		μs
t_f	Fall time		0.40		μs

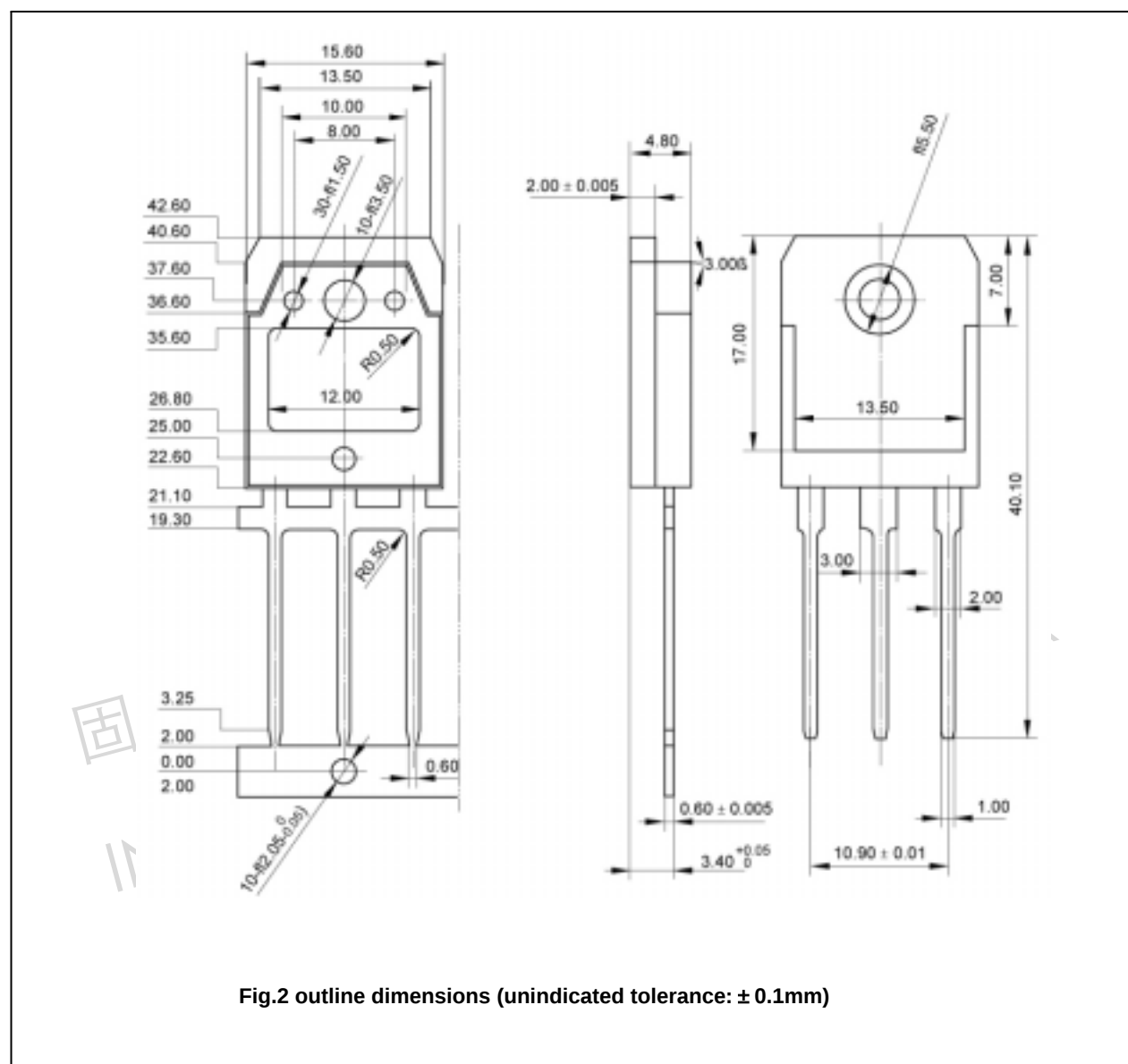
◆ h_{FE} Classifications

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

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PACKAGE OUTLINE



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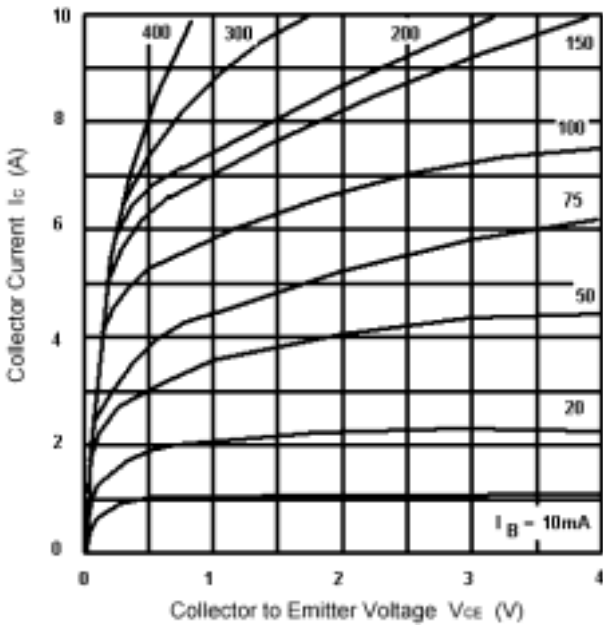


Fig.3 Static Characteristic

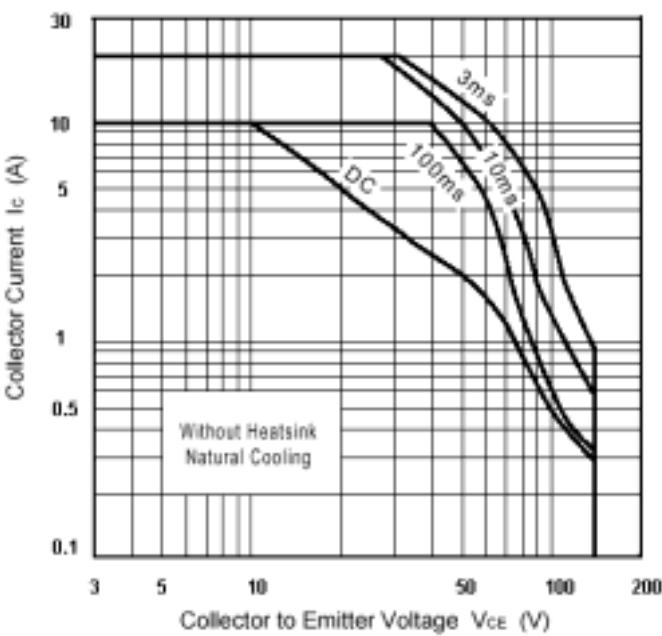


Fig.4 Safe Operating Area

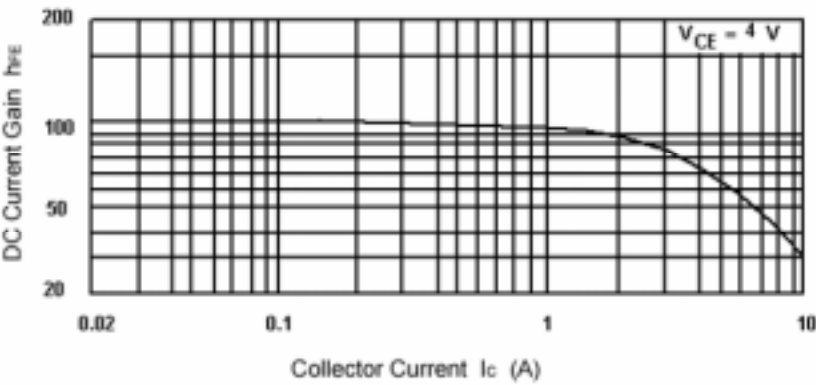


Fig.5 DC current Gain