

Silicon PNP Power Transistors

2SA1263N

DESCRIPTION

- With TO-3P(I) package
- Complement to type 2SC3180N
- 2SA1263 with short pin

APPLICATIONS

- Power amplifier applications

PINNING

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

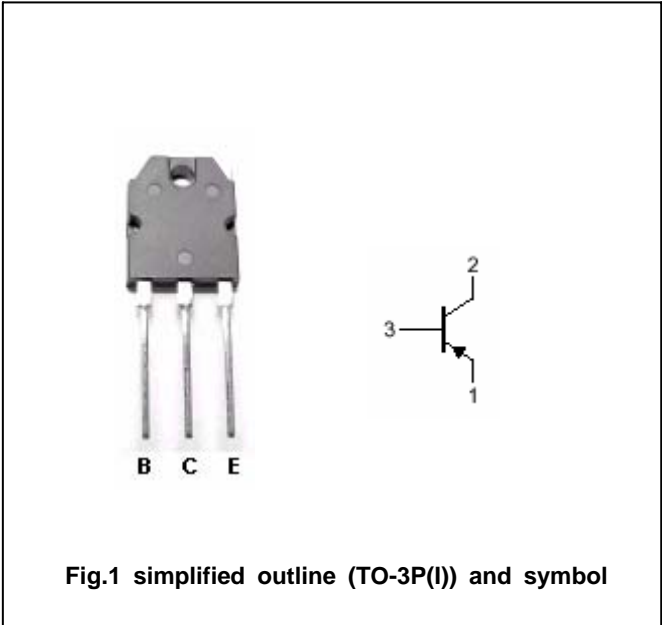


Fig.1 simplified outline (TO-3P(I)) and symbol

Absolute maximum ratings(Ta=25℃)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	-80	V
V _{CEO}	Collector-emitter voltage	Open base	-80	V
V _{EBO}	Emitter-base voltage	Open collector	-5	V
I _C	Collector current		-6	A
I _B	Base current		-0.6	A
P _T	Total power dissipation	T _C =25℃	60	W
T _j	Junction temperature		150	℃
T _{stg}	Storage temperature		-55~150	℃

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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	-80			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-5A; I _B =-0.5A		-1.0	-2.0	V
V _{BE}	Base-emitter on voltage	I _C =-3A; V _{CE} =-5V		-0.95	-1.5	V
I _{CBO}	Collector cut-off current	V _{CB} =-80V; I _E =0			-5	μA
I _{EBO}	Emitter cut-off current	V _{EB} =-5V; I _C =0			-5	μA
h _{FE-1}	DC current gain	I _C =-1A; V _{CE} =-5V	55		160	
h _{FE-2}	DC current gain	I _C =-3A; V _{CE} =-5V	35			
f _T	Transition frequency	I _C =-1A; V _{CE} =-5V		30		MHz
C _{ob}	Output capacitance	I _E =0; V _{CB} =-10V; f=1MHz		290		pF

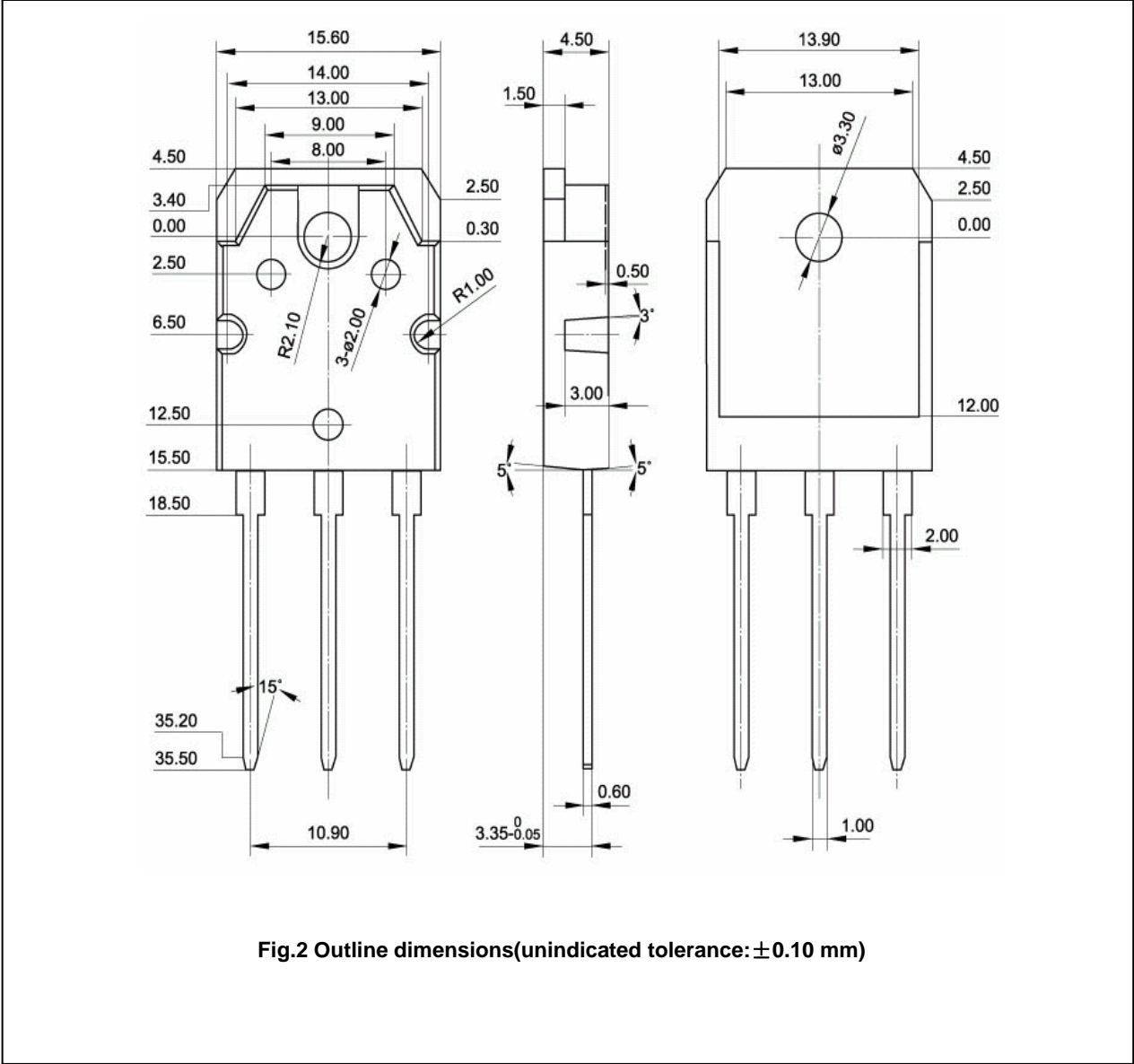
◆ h_{FE-1} Classifications

R	O
55-110	80-160

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PACKAGE OUTLINE



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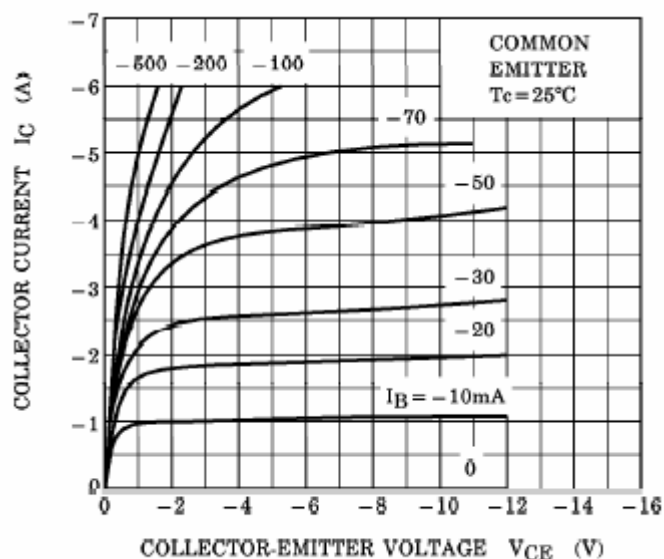


Fig.3 Static Characteristic

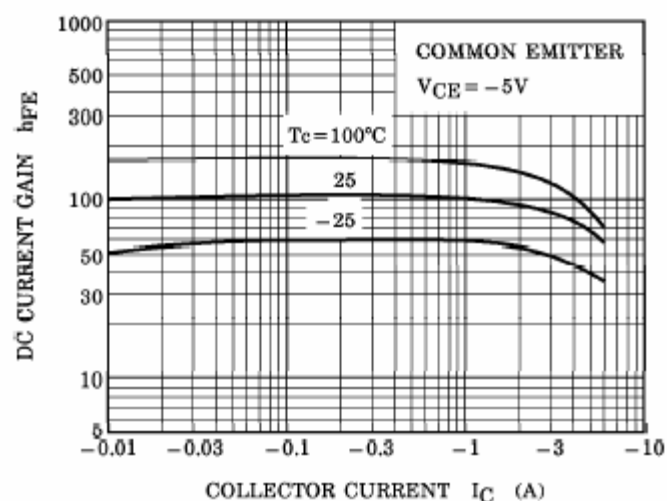


Fig.5 DC current Gain

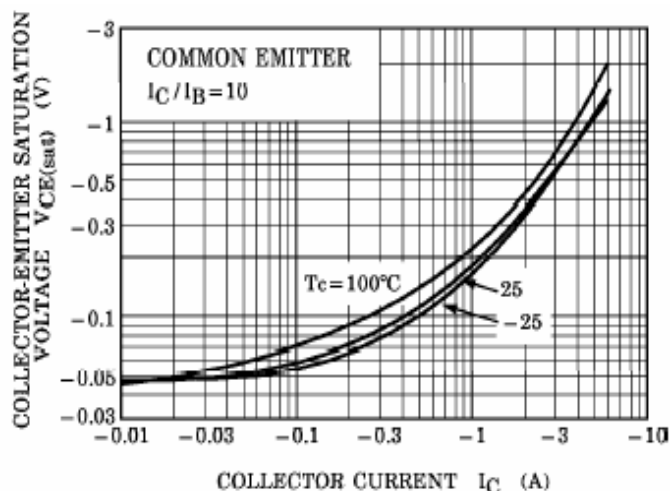


Fig.4 Collector-Emitter Saturation Voltage

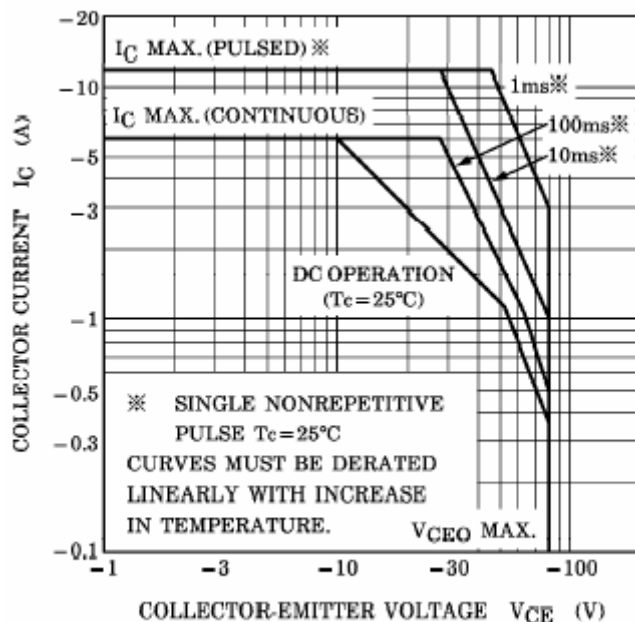


Fig.6 Safe Operating Area