

Silicon PNP Power Transistors

2SA1093

DESCRIPTION

- With TO-3P(I) package
- Complement to type 2SC2563
- High transition frequency

APPLICATIONS

- Audio frequency power amplifier applicatios

PINNING

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

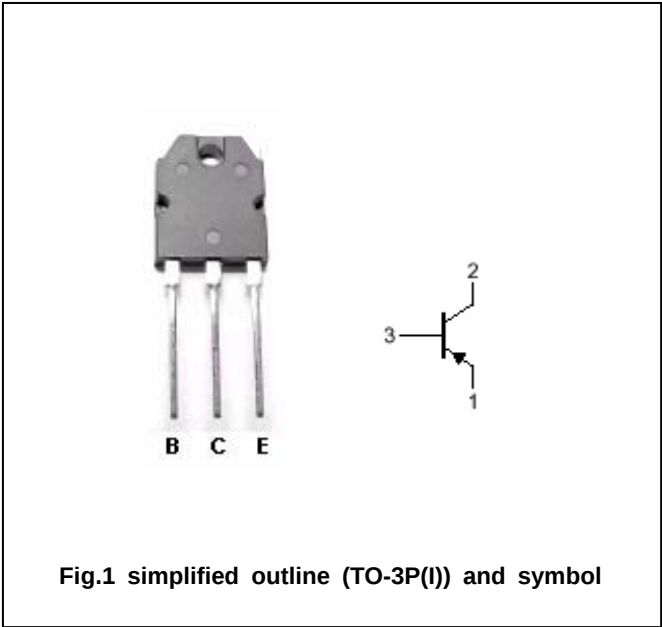


Fig.1 simplified outline (TO-3P(I)) and symbol

Absolute maximum ratings(Ta=25℃)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	-120	V
V _{CEO}	Collector-emitter voltage	Open base	-120	V
V _{EBO}	Emitter-base voltage	Open collector	-5	V
I _C	Collector current		-8	A
I _B	Base current		-0.8	A
P _T	Total power dissipation	T _C =25℃	80	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	-120			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-4A; I _B =-0.4A		-1.0	-2.0	V
V _{BE}	Base-emitter voltage	I _C =-4A; V _{CE} =-5V		-1.5	-2.5	V
I _{CBO}	Collector cut-off current	V _{CB} =-120V; I _E =0			-50	μ A
I _{EBO}	Emitter cut-off current	V _{EB} =-5V; I _C =0			-50	μ A
h _{FE-1}	DC current gain	I _C =-1A; V _{CE} =-5V	55		240	
h _{FE-2}	DC current gain	I _C =-4A; V _{CE} =-5V	30			
f _T	Transition frequency	I _C =-1A; V _{CE} =-10V		90		MHz
C _{ob}	Output capacitance	I _E =0; V _{CB} =-10V; f=1MHz		150		pF

◆ h_{FE-1} Classifications

R	O	Y
55-110	80-160	120-240

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PACKAGE OUTLINE

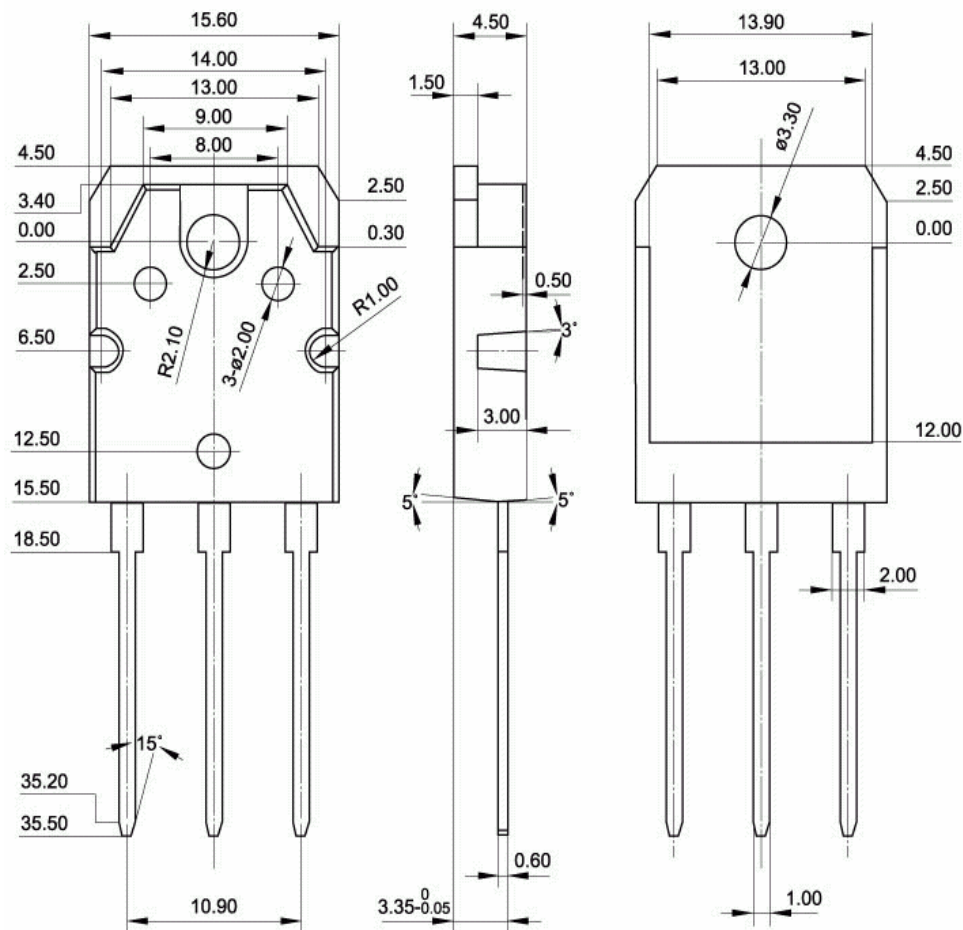


Fig.2 Outline dimensions(unindicated tolerance: ± 0.10 mm)