

Silicon PNP Power Transistors

2SA1103

DESCRIPTION

- With TO-3PN package
- Complement to type 2SC2578
- High current capability
- High power dissipation

APPLICATIONS

- Audio power amplifier applications
- DC-DC converters

PINNING

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

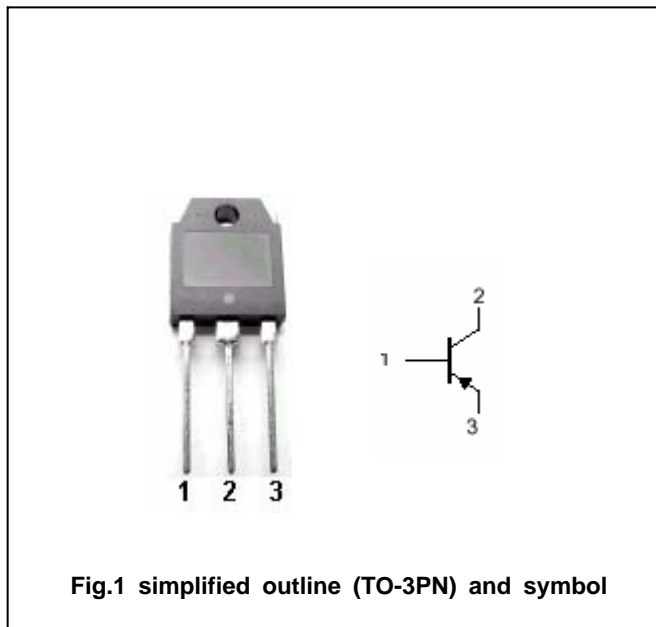


Fig.1 simplified outline (TO-3PN) and symbol

Absolute maximum ratings(Ta=)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-100	V
V_{CEO}	Collector-emitter voltage	Open base	-100	V
V_{EBO}	Emitter-base voltage	Open collector	-6	V
I_C	Collector current		-7	A
P_C	Collector power dissipation	$T_C=25$	70	W
T_j	Junction temperature		150	
T_{stg}	Storage temperature		-55~150	

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CHARACTERISTICS

T_j=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-25mA ; I _B =0	-100			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-3A; I _B =-0.3A			-1.5	V
V _{BEsat}	Base-emitter saturation voltage	I _C =-3A; I _B =-0.3A			-1.8	V
I _{CBO}	Collector cut-off current	V _{CB} =-100V; I _E =0			-100	μ A
I _{EBO}	Emitter cut-off current	V _{EB} =-6V; I _C =0			-100	μ A
h _{FE}	DC current gain	I _C =-3A ; V _{CE} =4V	50		180	
f _T	Transition frequency	I _E =1A ; V _{CE} =-12V		20		MHz

