

Silicon PNP Power Transistors

2SA1109

DESCRIPTION

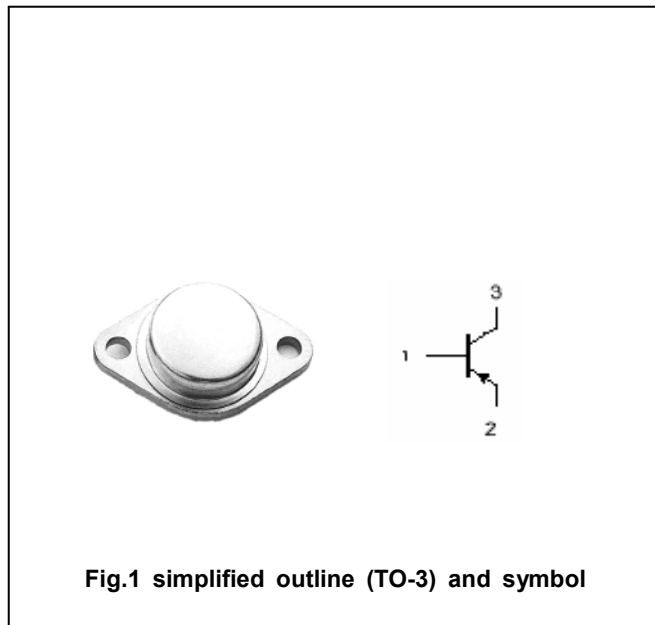
- With TO-3 package
- Low collector saturation voltage
- High transition frequency

APPLICATIONS

- For audio frequency amplifier and high power amplifier applications

PINNING(see Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

Absolute maximum ratings($T_a = \square$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-180	V
V_{CEO}	Collector-emitter voltage	Open base	-180	V
V_{EBO}	Emitter-base voltage	Open collector	-5	V
I_C	Collector current		-10	A
I_{CM}	Collector current-peak		-14	A
P_C	Collector power dissipation	$T_C = 25 \square$	200	W
T_j	Junction temperature		150	\square
T_{stg}	Storage temperature		-65~150	\square

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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 =-25mA ; I _B =0	-180			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-5A ; I _B =-0.5A			-2.0	V
V _{BE}	Base-emitter on voltage	I _C =-5A ; V _{CE} =-5V			-1.5	V
I _{CBO}	Collector cut-off current	V _{CB} =-180V ; I _E =0			-0.1	mA
I _{EBO}	Emitter cut-off current	V _{EB} =-5V ; I _C =0			-0.1	mA
h _{FE-1}	DC current gain	I _C =-2A ; V _{CE} =-5V	50		160	
h _{FE-2}	DC current gain	I _C =-5A ; V _{CE} =-5V	30			
f _T	Transition frequency	I _C =-0.5A ; V _{CE} =-5V		60		MHz

PACKAGE OUTLINE



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