

Silicon PNP Power Transistors

2SA1116

DESCRIPTION

- With TO-3 package
- Complement to type 2SC2607

APPLICATIONS

- For power switching amplifier and general purpose applications

PINNING(see Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

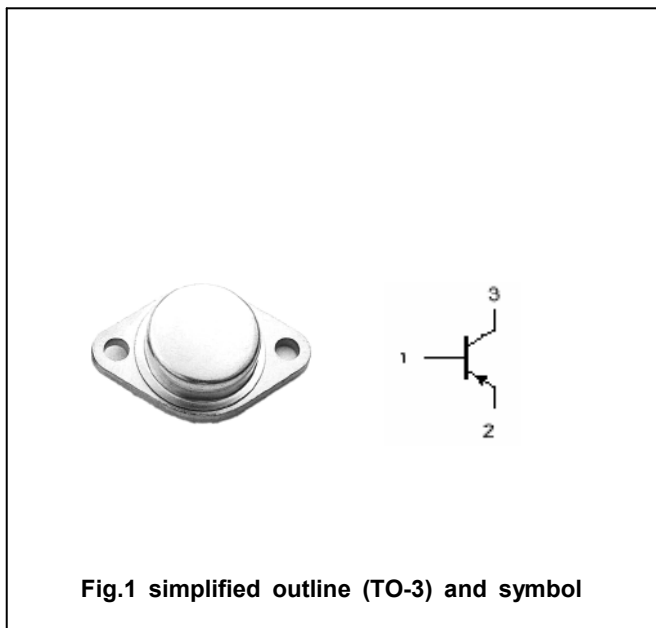


Fig.1 simplified outline (TO-3) and symbol

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	-200	V
V _{EBO}	Emitter-base voltage	Open collector	-6	V
I _C	Collector current		-15	A
I _B	Base current		-5	A
P _C	Collector power dissipation	T _C =25□	150	W
T _j	Junction temperature		150	□
T _{stg}	Storage temperature		-65~150	□

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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	-200			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-10A; I _B =-1A			-3.0	V
I _{CBO}	Collector cut-off current	V _{CB} =-200V; I _E =0			-0.1	mA
I _{EBO}	Emitter cut-off current	V _{EB} =-6V; I _C =0			-0.1	mA
h _{FE}	DC current gain	I _C =-5A ; V _{CE} =-4V	30			
f _T	Transition frequency	I _C =-0.5A ; V _{CE} =-12V		20		MHz

Switching times resistive load

t _r	Rise time	I _C =-5.0A I _{B1} =-I _{B2} =-0.5A R _L =12Ω; V _{CC} =-60V		0.3		μs
t _s	Storage time			0.9		μs
t _f	Fall time			0.2		μs

PACKAGE OUTLINE



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