

Silicon PNP Power Transistors

2SA747A

DESCRIPTION

- With TO-3 package
- Wide area of safe operation
- Complement to type 2SC1116A

APPLICATIONS

- For audio and general purpose applications

PINNING(see Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

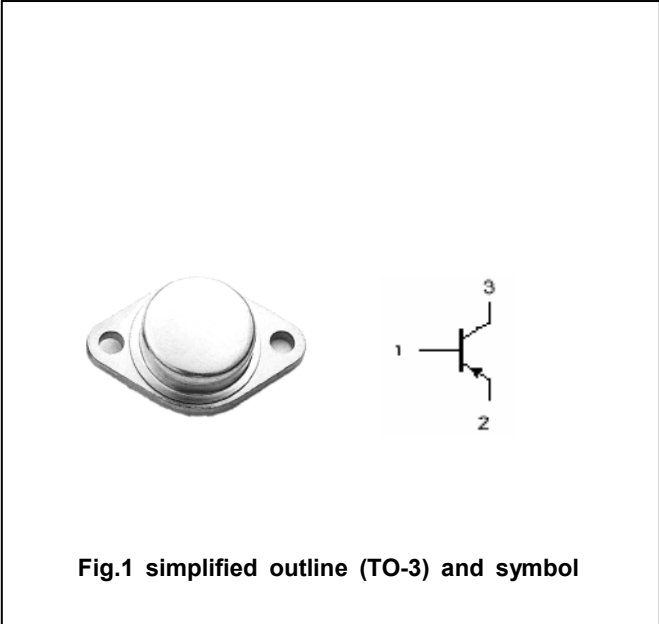


Fig.1 simplified outline (TO-3) and symbol

Absolute maximum ratings(Ta=□)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	-140	V
V _{CEO}	Collector-emitter voltage	Open base	-140	V
V _{EBO}	Emitter-base voltage	Open collector	-6	V
I _C	Collector current		-10	A
I _B	Base current		-4	A
P _C	Collector power dissipation	T _C =25□	100	W
T _j	Junction temperature		150	□
T _{stg}	Storage temperature		-65~150	□

Silicon PNP Power Transistors

2SA747A

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	-140			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-1mA ; I _C =0	-6			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-5A ; I _B =-0.5A			-2.0	V
V _{BEsat}	Base-emitter saturation voltage	I _C =-5A ; I _B =-0.5A			-2.5	V
I _{CBO}	Collector cut-off current	V _{CB} =-140V ; I _E =0			-0.1	mA
I _{EBO}	Emitter cut-off current	V _{EB} =-6V ; I _C =0			-1.0	mA
h _{FE}	DC current gain	I _C =-3A ; V _{CE} =-4V	30			
f _T	Transition frequency	I _C =-0.5A ; V _{CE} =-12V		15		MHz

Switching times

t _r	Rise time	V _{CC} =-12V ; R _L =4Ω ; I _C =-3A I _{B1} =-200mA, I _{B2} =50mA		1.2		μs
t _{stg}	Storage time			3.3		μs
t _f	Fall time			0.8		μs

Silicon PNP Power Transistors

2SA747A

PACKAGE OUTLINE



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