

Silicon NPN Power Transistors

2SC2245

DESCRIPTION

- With TO-3 package
- High voltage ,high speed

APPLICATIONS

- Power switching
- Power amplification
- power driver

PINNING (See Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

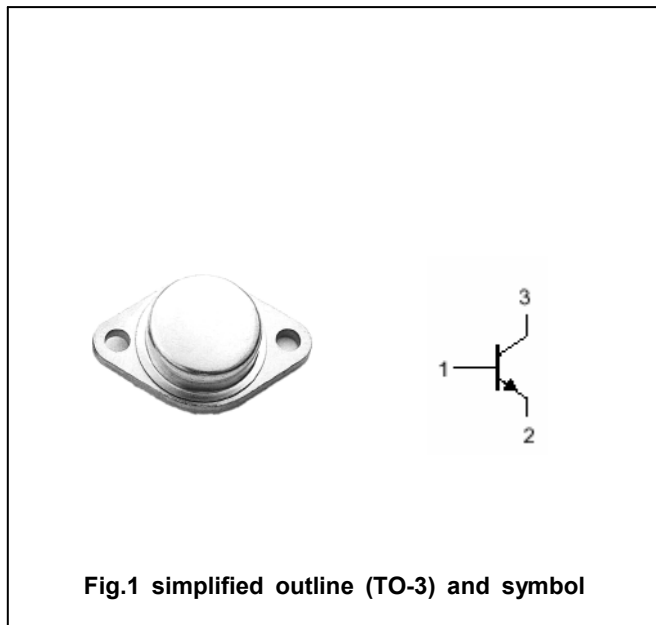


Fig.1 simplified outline (TO-3) and symbol

Absolute maximum ratings(Ta=25°C)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	450	V
V _{CEO}	Collector-emitter voltage	Open base	400	V
V _{EBO}	Emitter-base voltage	Open collector	5	V
I _C	Collector current		10	A
I _{CM}	Collector current-peak		20	A
P _T	Total power dissipation	T _{mb} =25°C	100	W
T _j	Junction temperature		200	°C
T _{stg}	Storage temperature		-65~200	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
R _{th j-mb}	Thermal resistance from junction to mounting base	1.0	°C/W

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CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-emitter sustaining voltage	I _C =0.1A ; L=25mH	400			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =4A; I _B =0.8A			1.2	V
V _{BEsat}	Base-emitter saturation voltage	I _C =4A; I _B =0.8A			1.5	V
I _{CBO}	Collector cut-off current	V _{CB} =450V; I _E =0 T _C =125°C			1 4	mA
I _{CEO}	Collector cut-off current	V _{CE} =400V; I _B =0			5.0	mA
I _{EBO}	Emitter cut-off current	V _{EB} =5V; I _C =0			1.0	mA
h _{FE}	DC current gain	I _C =4A ; V _{CE} =5V	10			

Switching times

t _{on}	Turn-on time	I _C =4A ; I _{B1} =- I _{B2} =0.8A			1.0	μs
t _s	Storage time				2.0	μs
t _f	Fall time				1.0	μs

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PACKAGE OUTLINE



Fig.2 Outline dimensions