

Silicon NPN Power Transistors

2N6359

DESCRIPTION

- With TO-3 package
- Low collector saturation voltage
- High DC current gain
- Excellent safe operating area

APPLICATIONS

- Designed for high power applications and switching circuits such as relay or solenoid drivers, dc to dc converters or inverters.

PINNING

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

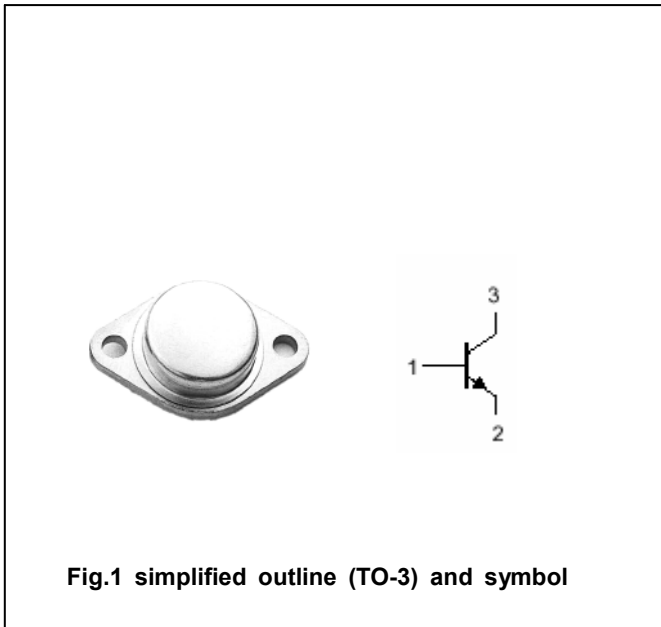


Fig.1 simplified outline (TO-3) and symbol

Absolute maximum ratings(Ta=□)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	100	V
V _{CEO}	Collector-emitter voltage	Open base	80	V
V _{EBO}	Emitter-base voltage	Open collector	7	V
I _C	Collector current		16	A
I _{CM}	Collector current-peak		30	A
I _B	Base current		4	A
P _D	Total Power Dissipation	T _C =25□	150	W
T _j	Junction temperature		150	□
T _{stg}	Storage temperature		-65~200	□

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
R _{th j-c}	Thermal resistance junction to case	1.17	□/W

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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 =0.2A ; I _B =0	80			V
V _{CEsat-1}	Collector-emitter saturation voltage	I _C =8A ; I _B =0.8A			1.4	V
V _{CEsat-2}	Collector-emitter saturation voltage	I _C =16A ; I _B =3.2A			4.0	V
V _{BE}	Base-emitter on voltage	I _C =8A ; V _{CE} =4V			2.2	V
I _{CEO}	Collector cut-off current	V _{CE} =80V ; I _B =0			2.0	mA
I _{CEX}	Collector cut-off current	V _{CE} =100V ; V _{BE(off)} =1.5V T _C =150 °C			2.0 10.0	mA
I _{EBO}	Emitter cut-off current	V _{EB} =7V ; I _C =0			5.0	mA
h _{FE-1}	DC current gain	I _C =8A ; V _{CE} =4V	15		60	
h _{FE-2}	DC current gain	I _C =16A ; V _{CE} =4V	5			
f _T	Transition frequency	I _C =1A ; V _{CE} =4V	0.2			MHz

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PACKAGE OUTLINE



Fig.2 outline dimensions (unindicated tolerance:±0.10mm)