

Silicon NPN Power Transistors

2SD198

DESCRIPTION

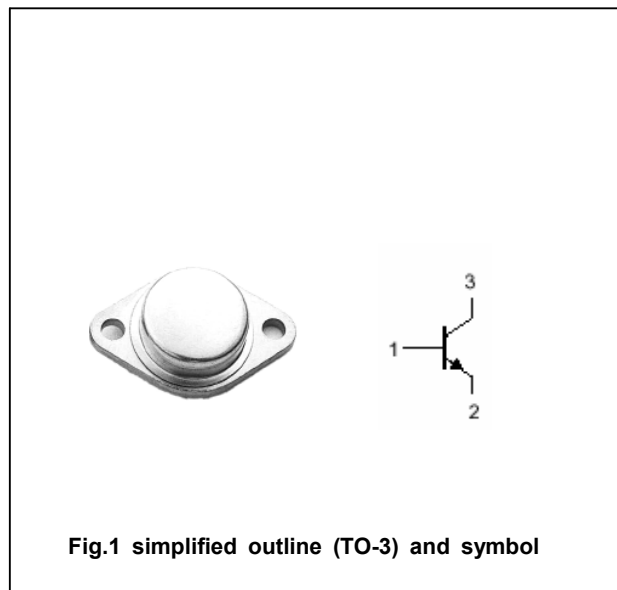
- With TO-3 package
- High breakdown voltage

APPLICATIONS

- voltage regulator
- Inverters
- Switching mode power supply

PINNING(see Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

**Absolute maximum ratings(Ta=□)**

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	300	V
V_{CEO}	Collector-emitter voltage	Open base	300	V
V_{EBO}	Emitter-base voltage	Open collector	6	V
I_C	Collector current		1	A
P_C	Collector power dissipation	$T_C=75^\circ$	25	W
T_j	Junction temperature		165	□
T_{stg}	Storage temperature		-55~200	□

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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 =100mA ; I _B =0	300			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =1mA ; I _C =0	6			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =1.0A ; I _B =0.1A			1.0	V
V _{BEsat}	Base-emitter saturation voltage	I _C =1.0A ; I _B =0.1A			1.5	V
I _{CBO}	Collector cut-off current	V _{CB} =300V ; 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 =0.1A ; V _{CE} =5V	30		300	
f _T	Transition frequency	I _C =0.5A ; V _{CE} =10V		25		MHz

PACKAGE OUTLINE

