

Silicon NPN Power Transistors

2N6354

DESCRIPTION

- With TO-3 package
- Excellent safe operating area
- Fast switching speed
- Low collector saturation voltage
- High power dissipation

APPLICATIONS

- For switching applications in military and industrial equipment

PINNING

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

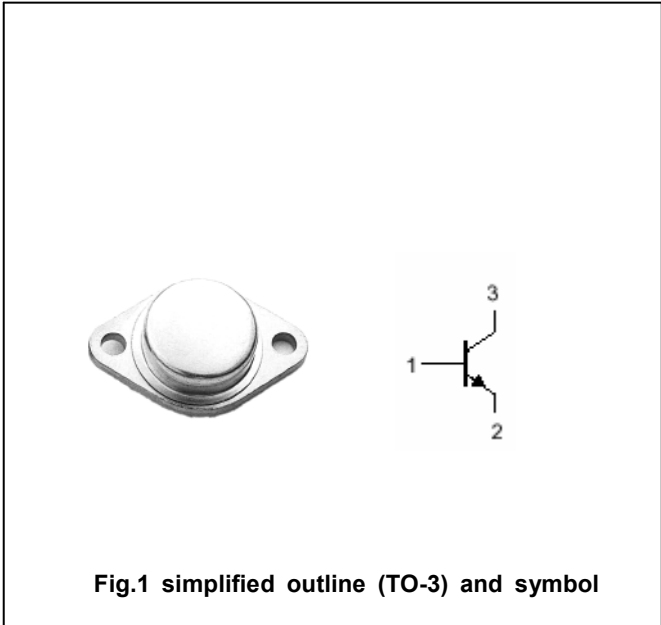


Fig.1 simplified outline (TO-3) and symbol

Absolute maximum ratings(Ta=□)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	150	V
V _{CEO}	Collector-emitter voltage	Open base	120	V
V _{EBO}	Emitter-base voltage	Open collector	6.5	V
I _C	Collector current		10	A
I _{CM}	Collector current-peak		12	A
I _B	Base current		5	A
P _D	Total Power Dissipation	T _C =25□	140	W
T _j	Junction temperature		200	□
T _{stg}	Storage temperature		-65~200	□

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
R _{th j-c}	Thermal resistance junction to case	1.25	□/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	120			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =5mA ; I _C =0	6.5			V
V _{CEsat-1}	Collector-emitter saturation voltage	I _C =5A ; I _B =0.5A			0.5	V
V _{CEsat-2}	Collector-emitter saturation voltage	I _C =10A ; I _B =1A			1.0	V
V _{BE sat-1}	Base-emitter saturation voltage	I _C =5A ; I _B =0.5A			1.3	V
V _{BE sat-2}	Base-emitter saturation voltage	I _C =10A ; I _B =1A			2.0	V
I _{CEO}	Collector cut-off current	V _{CE} =100V ; V _{BE} =0 T _C =125°C			10	mA
I _{CEV}	Collector cut-off current	V _{CE} =140V ; I _B =0			10 20	mA
I _{CBO}	Collector cut-off current	V _{CB} =150V ; I _E =0			5	mA
I _{EBO}	Emitter cut-off current	V _{EB} =5V ; I _C =0			5	mA
h _{FE-1}	DC current gain	I _C =5A ; V _{CE} =2V	20		150	
h _{FE-2}	DC current gain	I _C =10A ; V _{CE} =2V	10		100	
C _{OB}	Output capacitance	I _E =0 ; V _{CB} =10V ; f=1MHz			300	pF

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PACKAGE OUTLINE

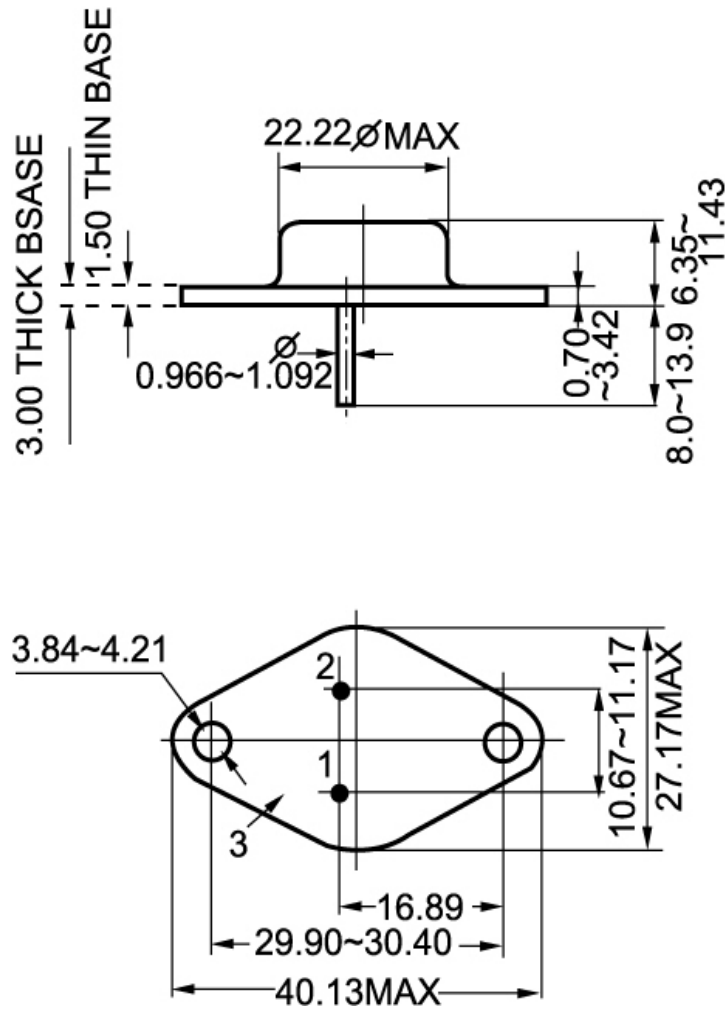


Fig.2 outline dimensions (unindicated tolerance:±0.10mm)