

Silicon NPN Power Transistors

2SC1172

DESCRIPTION

- With TO-3 package
- High breakdown voltage
- High speed switching

APPLICATIONS

- For use in color TV horizontal output applications

PINNING (See Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

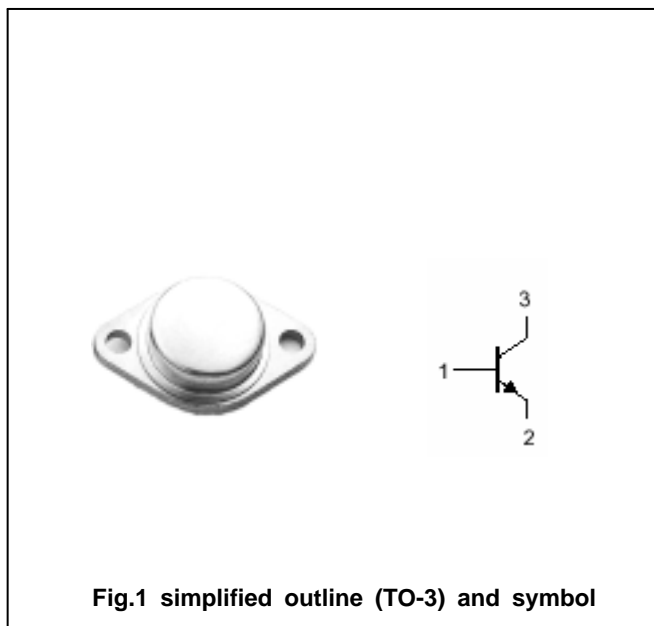


Fig.1 simplified outline (TO-3) and symbol

Absolute maximum ratings($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	1500	V
V_{CEO}	Collector-emitter voltage	Open base	600	V
V_{EBO}	Emitter-base voltage	Open collector	6	V
I_C	Collector current		5	A
P_T	Total power dissipation	$T_{mb}=25$	50	W
T_j	Junction temperature		150	
T_{stg}	Storage temperature		-55~150	

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CHARACTERISTICS

T_j=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEQ(SUS)}	Collector-emitter sustaining voltage	I _C =0.1A ; I _B =0	600			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =1mA ; I _C =0	6			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =4A; I _B =1A			5.0	V
V _{BEsat}	Base-emitter saturation voltage	I _C =4A; I _B =1A			1.5	V
I _{CBO}	Collector cut-off current	V _{CB} =800V; I _E =0			10	μ A
I _{EBO}	Emitter cut-off current	V _{EB} =6V; I _C =0			0.1	mA
h _{FE}	DC current gain	I _C =2A ; V _{CE} =10V	10			
f _T	Transition frequency	I _C =0.5A ; V _{CE} =10V		3		MHz

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PACKAGE OUTLINE

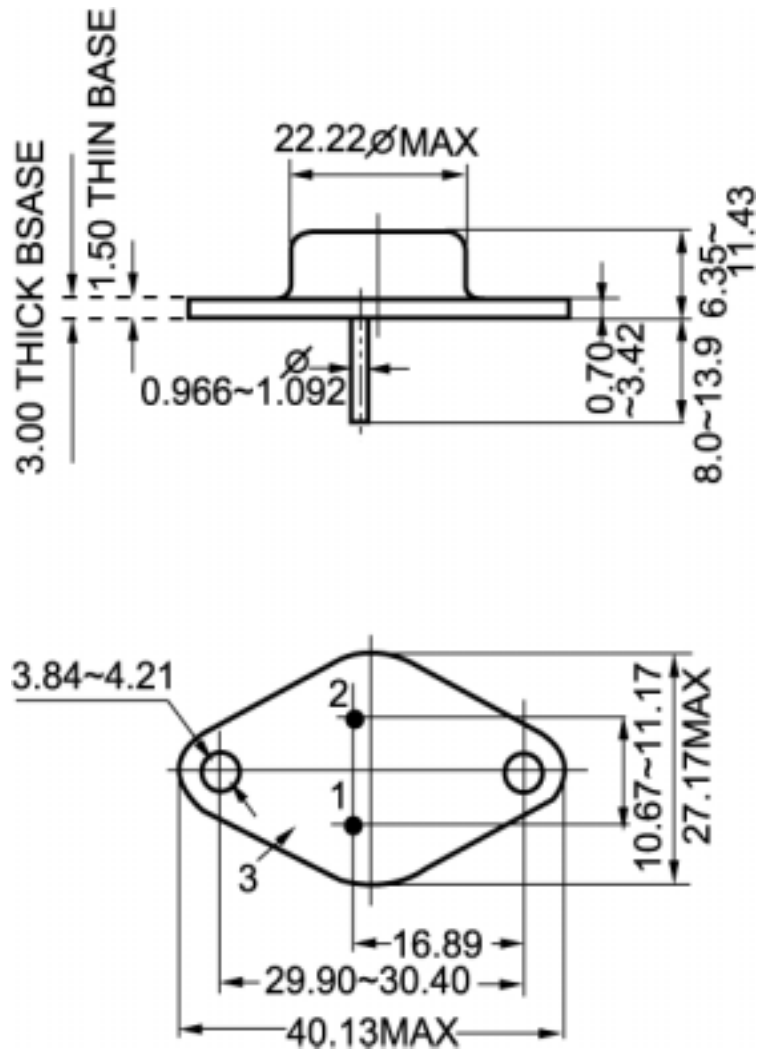


Fig.2 Outline dimensions