

Silicon NPN Power Transistors

BU208A

DESCRIPTION

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

APPLICATIONS

- For use in horizontal deflection output stages for color TV receivers.

PINNING(see fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

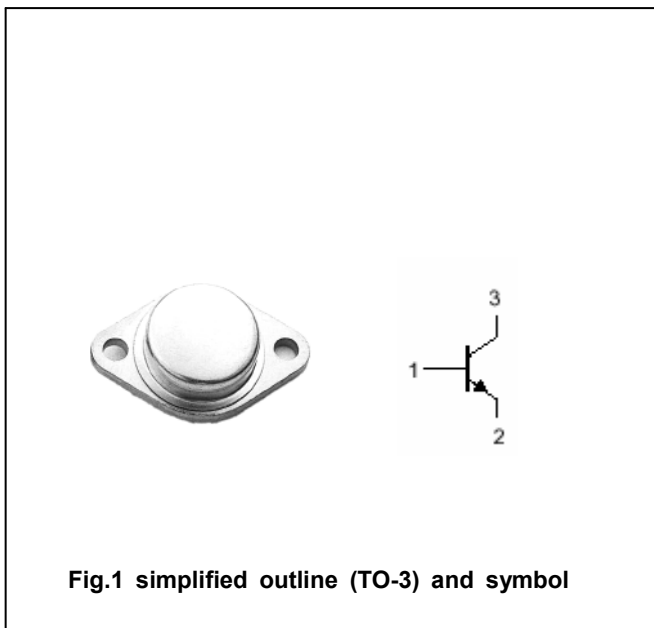


Fig.1 simplified outline (TO-3) and symbol

Absolute maximum ratings(Ta=□)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	1500	V
V _{CEO}	Collector-emitter voltage	Open base	700	V
V _{EBO}	Emitter-base voltage	Open collector	5	V
I _C	Collector current		5	A
I _{CM}	Collector current-peak		7.5	A
I _B	Base current		0.1	A
I _{BM}	Base current-peak		2.5	A
P _T	Total power dissipation	T _C =25□	150	W
T _j	Junction temperature		115	□
T _{stg}	Storage temperature		-65~150	□

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal resistance junction to case	1.0	□/W

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CHARACTERISTICS

T_j=25 °C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE0(SUS)}	Collector-emitter sustaining voltage	I _C =0.1A; I _B =0; L=25mH	700			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =10mA; I _C =0	5			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =4.5 A; I _B =2 A			1.0	V
V _{BEsat}	Base-emitter saturation voltage	I _C =4.5 A; I _B =2 A			1.5	V
I _{CES}	Collector cut-off current	V _{CE} =1500V; V _{BE} =0			1.0	mA
I _{EBO}	Emitter cut-off current	V _{EB} =5V; I _C =0			0.1	mA
h _{FE-1}	DC current gain	I _C =1A ; V _{CE} =5V	8			
h _{FE-2}	DC current gain	I _C =4.5A ; V _{CE} =5V	2.25			
C _{OB}	Output capacitance	I _E =0; V _{CB} =10V; f=1MHz		125		pF
f _T	Transition frequency	I _C =0.1A ; V _{CE} =15V		7		MHz
t _s	Storage time	I _C =4.5A ; I _B =1.8A L _B =10μH			10	μs
t _f	Fall time				0.7	μs

PACKAGE OUTLINE

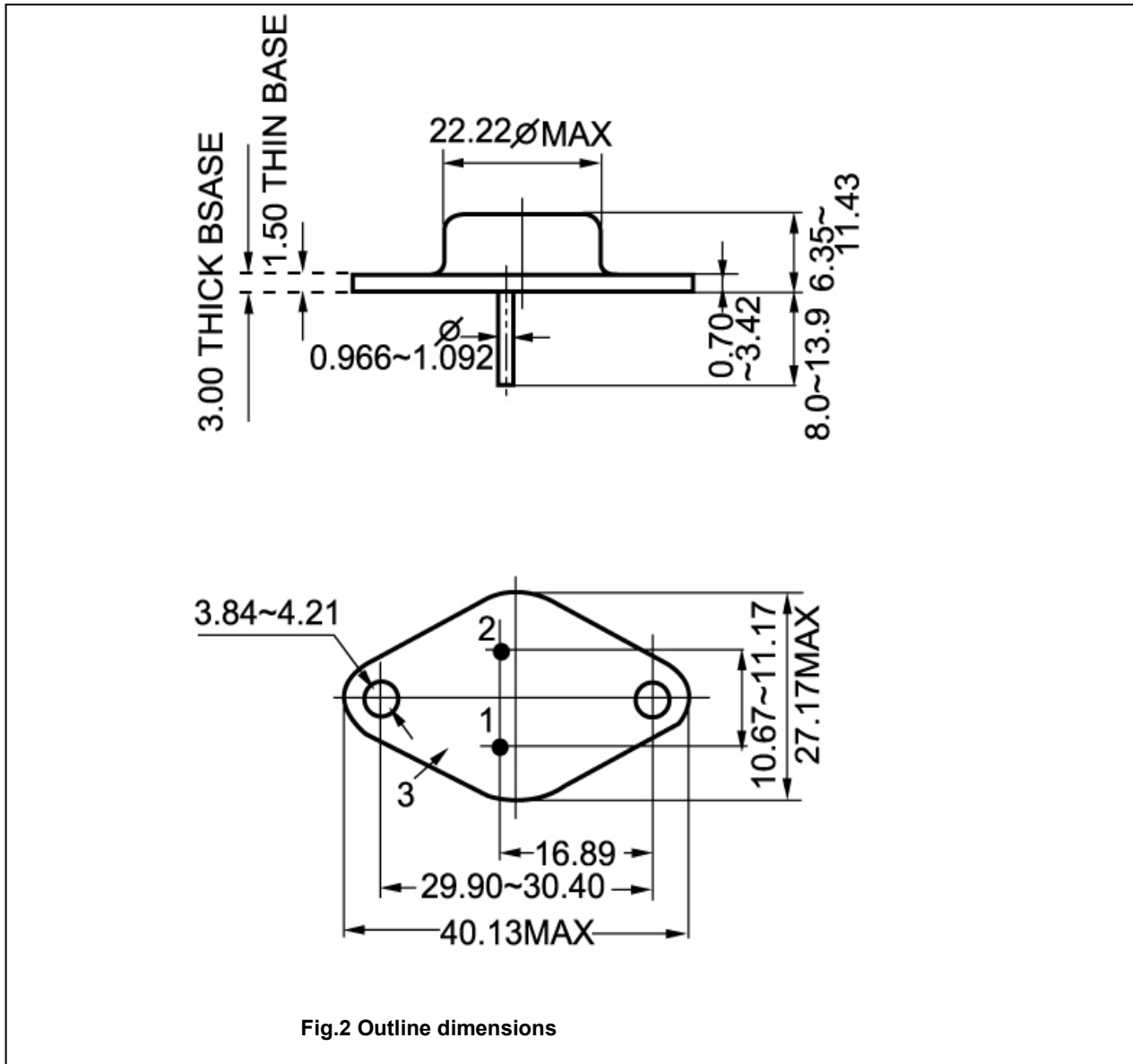


Fig.2 Outline dimensions