

Silicon NPN Power Transistors

BU2508DX

DESCRIPTION

- With TO-3PML package
- High voltage;high speed
- Built-in damper diode

APPLICATIONS

- For use in horizontal deflection circuits of color TV receivers

PINNING

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter

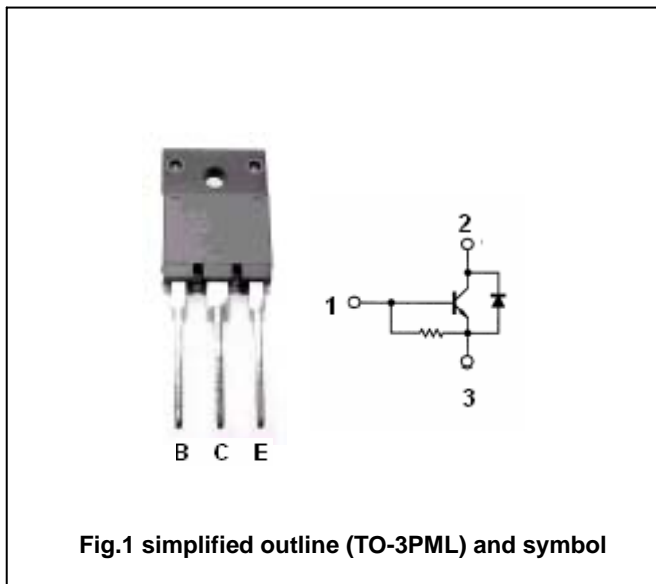


Fig.1 simplified outline (TO-3PML) and symbol

Absolute maximum ratings(Ta=25)

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	7.5	V
I _C	Collector current (DC)		8	A
I _{CM}	Collector current (Pulse)		15	A
I _B	Base current (DC)		4	A
I _{BM}	Base current (Pulse)		6	A
P _{tot}	Total power dissipation	T _C =25	45	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 _{CEO(SUS)}	Collector-emitter sustaining voltage	I _C =100mA ; I _B =0, L=25mH	700			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =600mA ; I _C =0	7.5	13.5		V
V _{CEsat}	Collector-emitter saturation voltage	I _C =4.5A ; I _B =1.12A			1.0	V
V _{BEsat}	Base-emitter saturation voltage	I _C =4.5A ; I _B =1.7A			1.1	V
I _{CES}	Collector cut-off current	V _{CE} =BV _{CES} ; V _{BE} =0 T _j =125			1.0 2.0	mA
I _{EBO}	Emitter cut-off current	V _{EB} =7.5V; I _C =0		227		mA
h _{FE-1}	DC current gain	I _C =1A ; V _{CE} =5V		13		
h _{FE-2}	DC current gain	I _C =4.5A ; V _{CE} =1V	4		7	
V _F	Diode forward voltage	I _F =4.5A			2.0	V
C _C	Collector capacitance	I _E =0 ; V _{CB} =10V; f=1MHz		80		pF

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PACKAGE OUTLINE

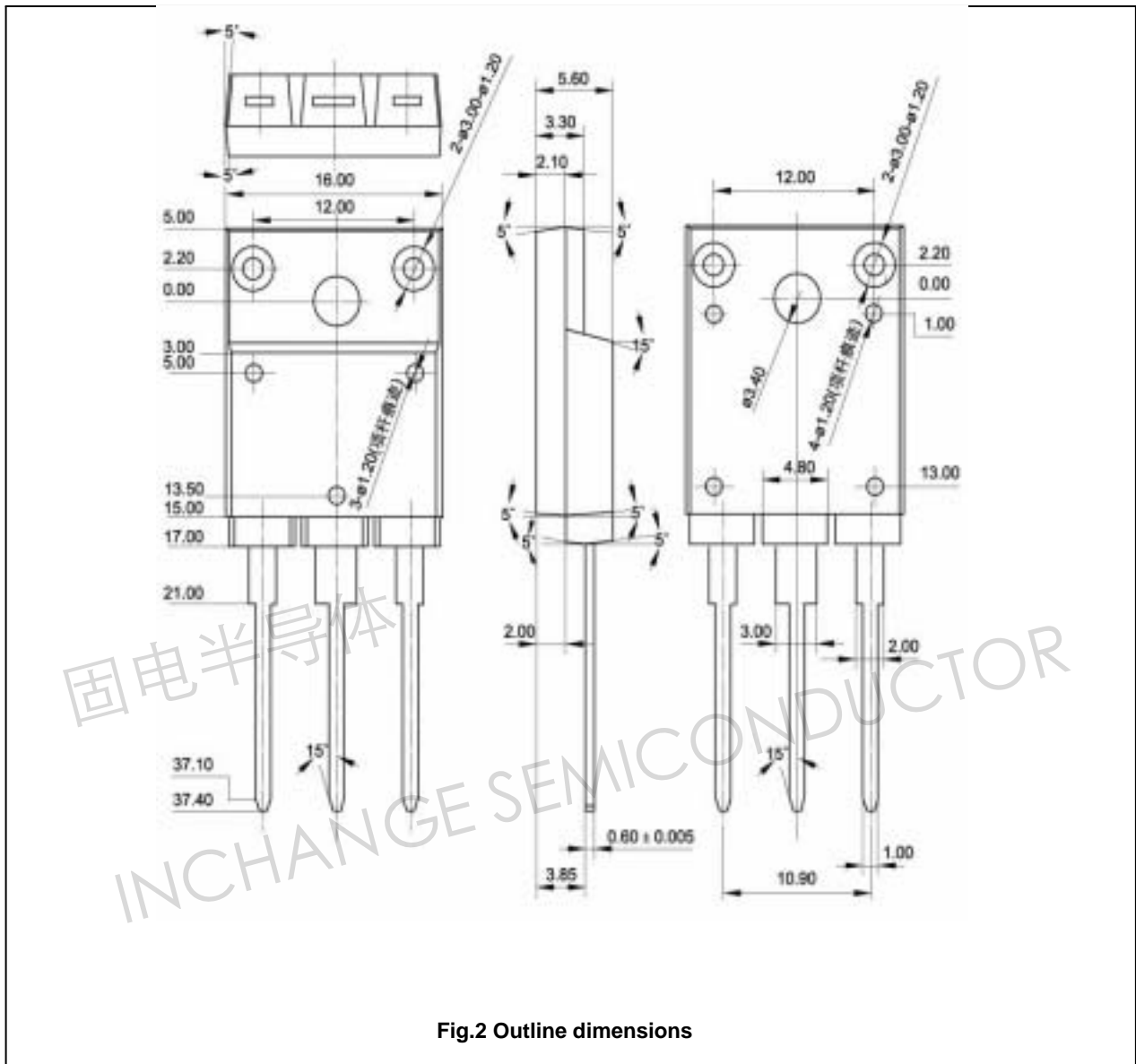


Fig.2 Outline dimensions