DESCRIPTION

- ·With TO-3PML package
- ·High voltage
- ·High speed switching

APPLICATIONS

- ·For use in horizontal deflection of colour TV receivers

PINNING

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter

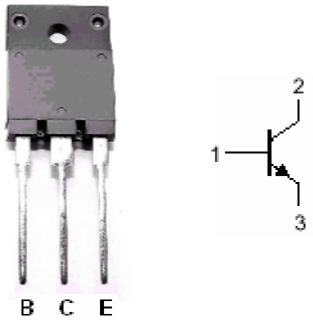

Fig.1 simplified outline (TO-3PML) and symbol

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	10	V
I_C	Collector current (DC)		8	A
I_{CP}	Collector current (Pulse)		15	A
P_{tot}	Total power dissipation	T_C=25℃	50	W
T_j	Max.operating junction temperature		150	℃
T_{stg}	Storage temperature		-65~150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal resistance junction case	2.5	℃/W

CHARACTERISTICS

Tj=25□ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-emitter sustaining voltage	I_C=100mA ;I_B=0,	700			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	I_E=10mA ;I_C=0	10			V
V_{CEsat}	Collector-emitter saturation voltage	I_C=4.5A ;I_B=2 A			1.0	V
V_{BEsat}	Base-emitter saturation voltage	I_C=4.5A ;I_B=2 A			1.3	V
h_{FE}	DC current gain	I_C=1A; V_{CE}=5V	8			
I_{CES}	Collector cut-off current	V_{CE}=1500V; V_{BE}=0 T_C=125□			1.0 2.0	mA
I_{EBO}	Emitter cut-off current	V_{EB}=5V; I_C=0			0.1	mA
f_T	Transition frequency	I_C=0.1A; V_{CE}=5V;f=5MHz		7		MHz
t_s	Storage time	I_C=4.5A ; V_{CC}=140V I_B=1.8A; L_C=0.9mH L_B=3μH		7		μs
t_f	Fall time			0.55		μs

PACKAGE OUTLINE

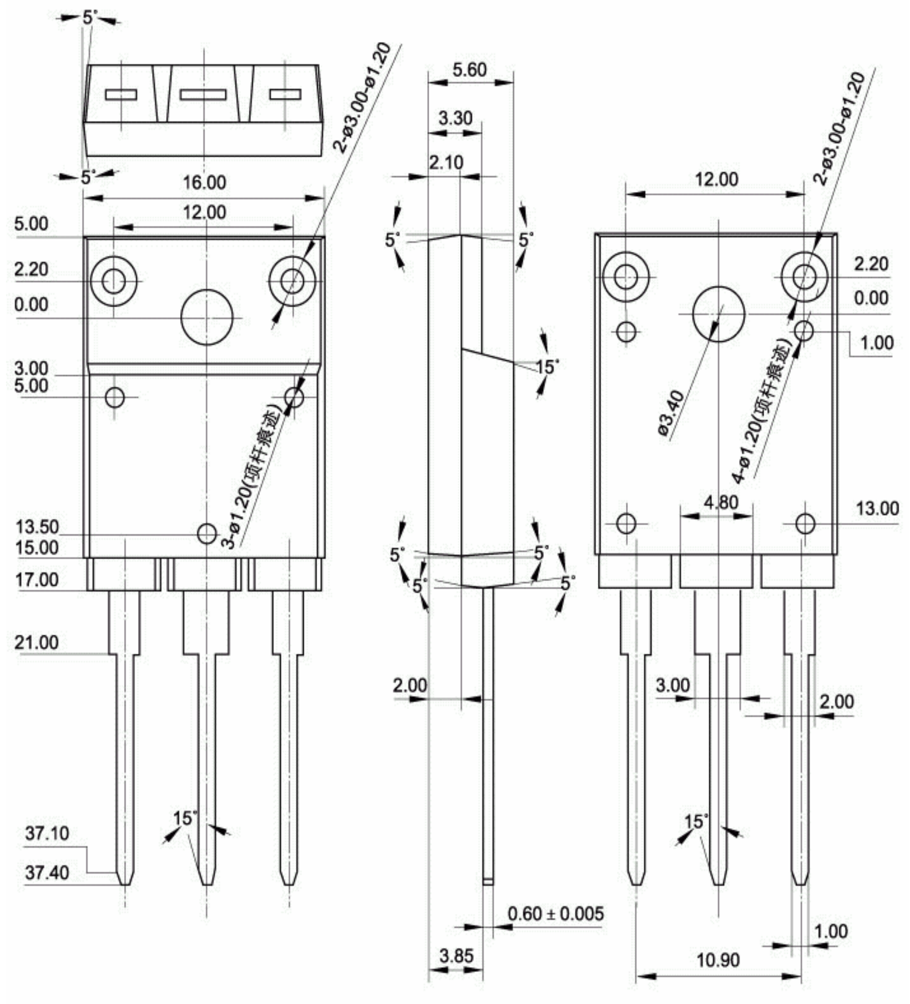

Fig.2 Outline dimensions