

DESCRIPTION

- High Switching Speed
- High Voltage
- Built-in Integrated Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

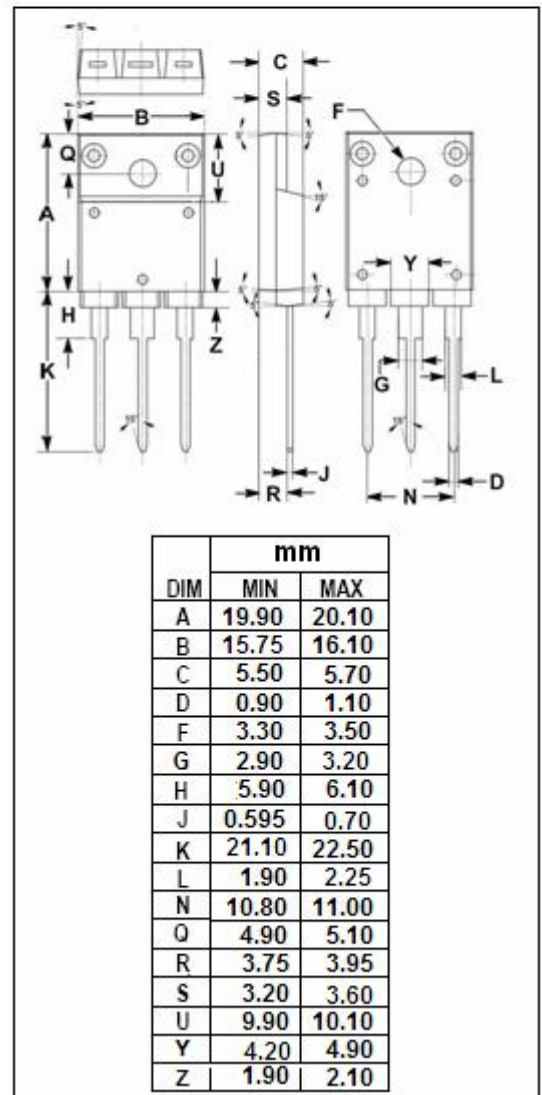
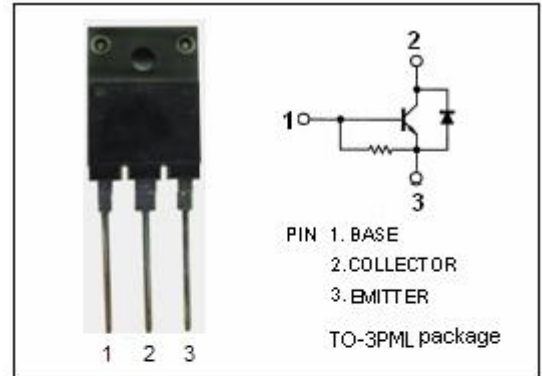
- Designed for use in horizontal deflection circuits of colour TV receivers.

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1500	V
V_{CEO}	Collector-Emitter Voltage	700	V
V_{EBO}	Emitter-Base Voltage	10	V
I_C	Collector Current-Continuous	7	A
I_{CM}	Collector Current-Peak	12	A
I_B	Base Current	4	A
I_{BM}	Base Current-Peak	7	A
P_C	Collector Power Dissipation @ $T_c=25^{\circ}\text{C}$	55	W
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-65~150	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	2.27	$^{\circ}\text{C/W}$



ELECTRICAL CHARACTERISTICS**T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{CEQ(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA ; I _B = 0	700			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 1A			1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4A ; I _B = 1A			1.3	V
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C =0			200	mA
I _{CES}	Collector Cutoff Current	V _{CB} = BV _{CBO} ; I _E = 0 V _{CB} = BV _{CBO} ; I _E = 0; T _C =125°C			1.0 2.0	mA
h _{FE-1}	DC Current Gain	I _C = 1A ; V _{CE} = 5V	8		36	
h _{FE-2}	DC Current Gain	I _C = 4A ; V _{CE} = 5V	6			
V _{ECF}	C-E Diode Forward Voltage	I _F = 4A			2.0	V

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