

DESCRIPTION

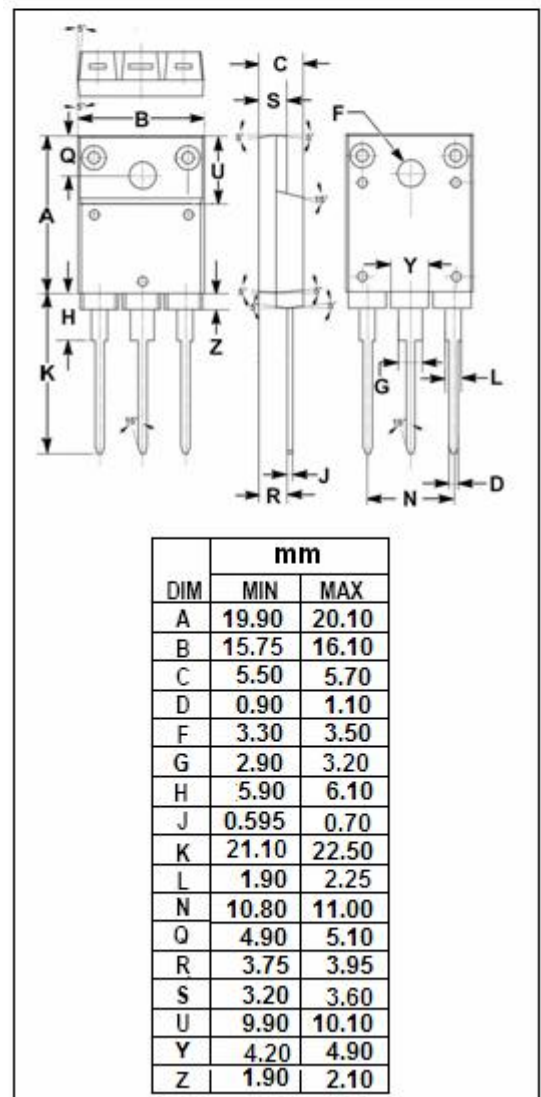
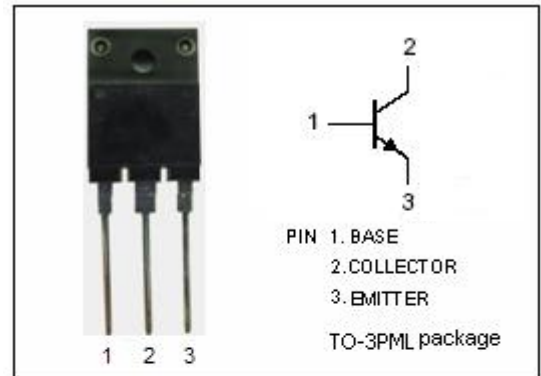
- High Breakdown Voltage-
: $V_{(BR)CBO} = 1500V(\text{Min})$
- High Switching Speed
- High Reliability

APPLICATIONS

- Ultrahigh-definition CRT display horizontal deflection output applications

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	800	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	10	A
I_{CP}	Collector Current-Peak	25	A
P_C	Collector Power Dissipation @ $T_a=25^\circ\text{C}$	3.0	W
	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	70	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



ELECTRICAL CHARACTERISTICS

$T_C=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C= 10\text{mA}; I_B= 0$	800			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C= 8\text{A}; I_B= 2\text{A}$			5.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C= 8\text{A}; I_B= 2\text{A}$			1.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB}= 800\text{V}; I_E= 0$			10	μA
I_{CES}	Collector Cutoff Current	$V_{CE}= 1500\text{V}; R_{BE}= 0$			1.0	mA
I_{EBO}	Emitter Cutoff Current	$V_{EB}= 4\text{V}; I_C= 0$			1.0	mA
h_{FE-1}	DC current gain	$I_C= 1\text{A}; V_{CE}= 5\text{V}$	20		30	
h_{FE-2}	DC current gain	$I_C= 8\text{A}; V_{CE}= 5\text{V}$	4		7	

Switching times

t_{stg}	Storage Time	$I_C= 6\text{A}, I_{B1}= 1.2\text{A}; I_{B2}= -2.4\text{A}$ $R_L= 50\Omega; V_{CC}= 200\text{V}$			3.0	μs
t_f	Fall Time				0.2	μs