

**DESCRIPTION**

- Collector-Emitter Sustaining Voltage-  
:  $V_{CEO(SUS)} = 700V$  (Min)
- High Switching Speed

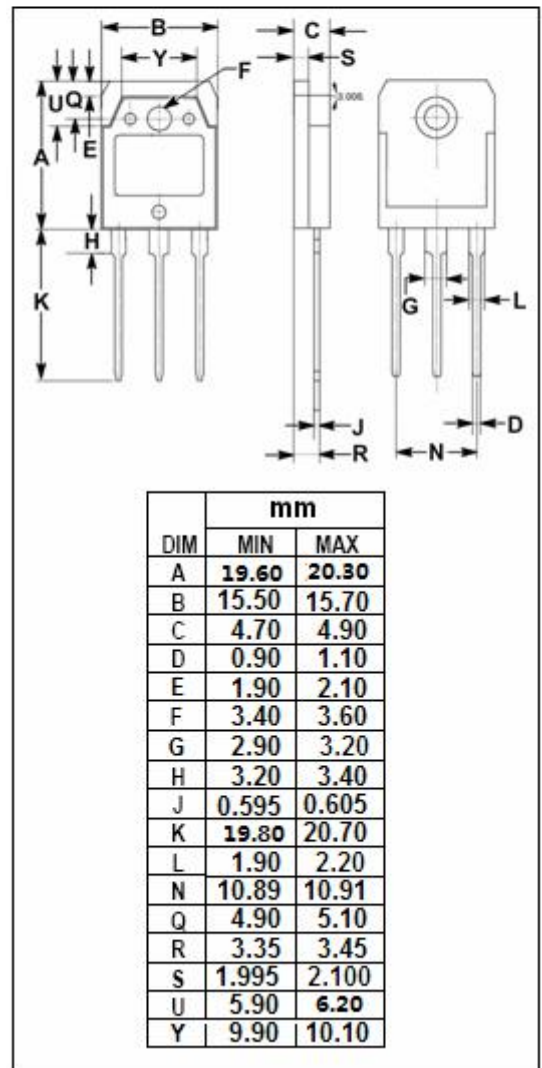
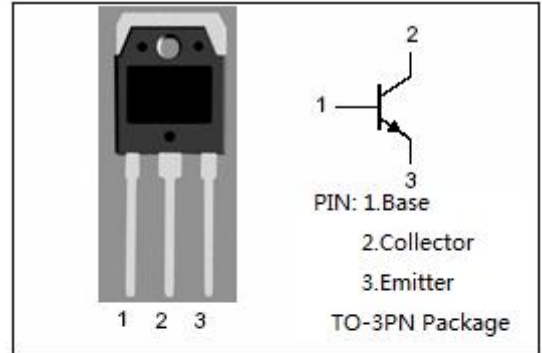
**APPLICATIONS**

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

**ABSOLUTE MAXIMUM RATINGS( $T_a=25^\circ C$ )**

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CES}$	Collector- Emitter Voltage( $V_{BE} = 0$ )	1500	V
$V_{CEO}$	Collector-Emitter Voltage	700	V
$V_{EBO}$	Emitter-Base Voltage	7.5	V
$I_C$	Collector Current- Continuous	8	A
$I_{CM}$	Collector Current-Peak	15	A
$I_B$	Base Current- Continuous	4	A
$I_{BM}$	Base Current-Peak	6	A
$P_C$	Collector Power Dissipation @ $T_c=25^\circ C$	125	W
$T_J$	Junction Temperature	150	$^\circ C$
$T_{stg}$	Storage Temperature Range	-65~150	$^\circ C$

SYMBOL	PARAMETER	MAX	UNIT
$R_{th-j-c}$	Thermal Resistance, Junction to Case	1.0	$^\circ C/W$



**ELECTRICAL CHARACTERISTICS**

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEQ(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C= 50\text{mA}$ ; $I_B= 0, L= 25\text{mH}$	700			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E= 1\text{mA}$ ; $I_C= 0$	7.5			V
$V_{CE(sat)-1}$	Collector-Emitter Saturation Voltage	$I_C= 4.5\text{A}$ ; $I_B= 1.1\text{A}$			5.0	V
$V_{CE(sat)-2}$	Collector-Emitter Saturation Voltage	$I_C= 4.5\text{A}$ ; $I_B= 1.29\text{A}$			1.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C= 4.5\text{A}$ ; $I_B= 1.7\text{A}$			1.3	V
$I_{CES}$	Collector Cutoff Current	$V_{CE}= 1500\text{V}$ ; $V_{BE}= 0$ $V_{CE}= 1500\text{V}$ ; $V_{BE}= 0$ ; $T_c=125^\circ\text{C}$			1.0 2.0	mA
$I_{EBO}$	Emitter Cutoff Current	$V_{EB}= 7.5\text{V}$ ; $I_C= 0$			1.0	mA
$h_{FE-1}$	DC Current Gain	$I_C= 0.1\text{A}$ ; $V_{CE}= 5\text{V}$	6		26	
$h_{FE-2}$	DC Current Gain	$I_C= 4.5\text{A}$ ; $V_{CE}= 1\text{V}$	4			
$C_{OB}$	Output Capacitance	$I_E= 0$ ; $V_{CB}= 10\text{V}$ ; $f_{test}= 1\text{MHz}$		80		pF

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