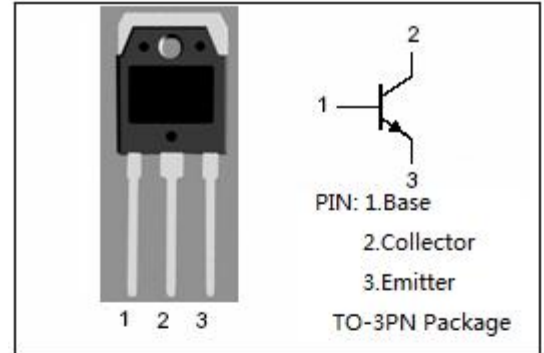


**DESCRIPTION**

- DC Current Gain  $-h_{FE} = 30 \sim 150 @ I_C = 0.3A$
- Collector-Emitter Sustaining Voltage-  
:  $V_{CEO(SUS)} = 350V(\text{Min})$

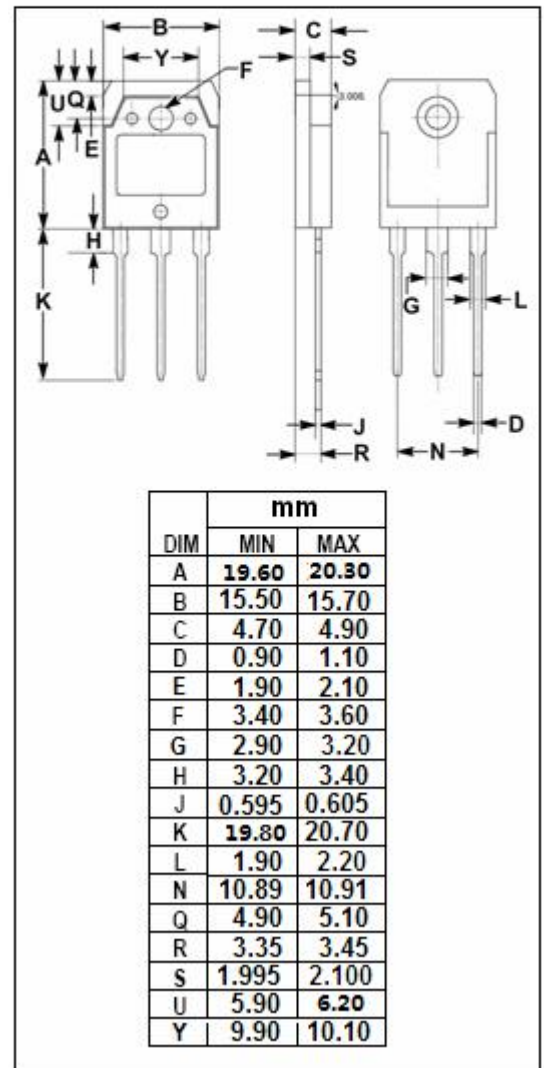
**APPLICATIONS**

- Designed for line operated audio output amplifier, and switching power supply drivers applications.



**ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)**

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	450	V
V <sub>CEO</sub>	Collector-Emitter Voltage	350	V
V <sub>EBO</sub>	Emitter-Base Voltage	5	V
I <sub>C</sub>	Collector Current-Continuous	3.0	A
I <sub>CM</sub>	Collector Current-Peak	5.0	A
I <sub>B</sub>	Base Current	0.6	A
P <sub>D</sub>	Collector Power Dissipation T <sub>C</sub> =25°C	100	W
T <sub>j</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature Range	-65~150	°C



**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	1.25	°C/W

**ELECTRICAL CHARACTERISTICS**

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CEQ(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C= 30\text{mA}; I_B= 0$	350		V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C= 3\text{A}; I_B= 0.6\text{A}$		1.5	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C= 3\text{A}; V_{CE}= 10\text{V}$		1.5	V
$I_{CBO}$	Collector Cutoff Current	$V_{CB}= 450\text{V}; I_E= 0$		1.0	mA
$I_{CEO}$	Collector Cutoff Current	$V_{CE}= 250\text{V}; I_B= 0$		1.0	mA
$I_{EBO}$	Emitter Cutoff Current	$V_{EB}= 5\text{V}; I_C= 0$		1.0	mA
$h_{FE-1}$	DC Current Gain	$I_C= 0.3\text{A}; V_{CE}= 10\text{V}$	30	150	
$h_{FE-2}$	DC Current Gain	$I_C= 3\text{A}; V_{CE}= 10\text{V}$	10		
$f_T$	Current-Gain—Bandwidth Product	$I_C= 0.2\text{A}; V_{CE}= 10\text{V}$	2.5		MHz