

**DESCRIPTION**

High Power Dissipation

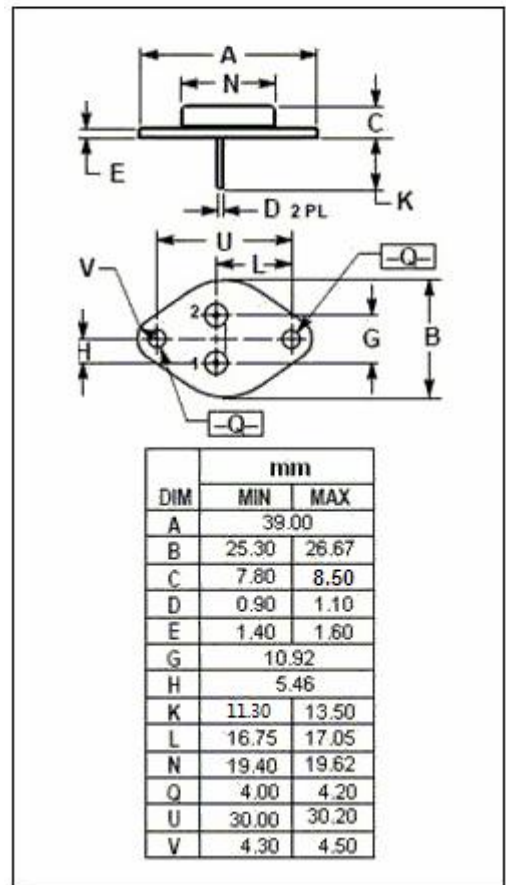
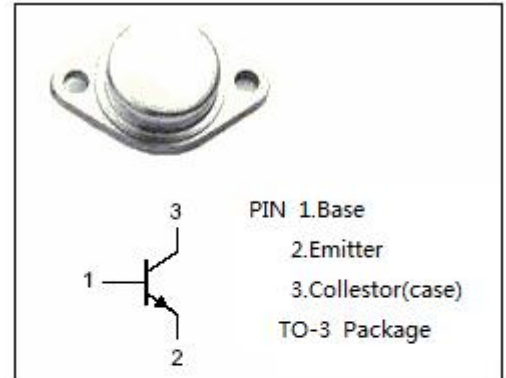
- Collector-Emitter Sustaining Voltage-  
:  $V_{CEO(SUS)} = 110V(\text{Min})$

**APPLICATIONS**

- Designed for use as either driver or output unit applications in audio amplifier circuits.

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

SYMBOL	PARAMETER	MAX	UNIT
$V_{CBO}$	Collector-Base Voltage	130	V
$V_{CER}$	Collector-Emitter Voltage $R_{BE} = 100\Omega$	130	V
$V_{CEO}$	Collector-Emitter Voltage	110	V
$V_{EBO}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current-Continuous	7	A
$I_B$	Base Current-Continuous	2	A
$P_C$	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	150	W
$T_j$	Junction Temperature	200	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-65~200	$^\circ\text{C}$



## ELECTRICAL CHARACTERISTICS

T<sub>c</sub>=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CEO(SUS)</sub>	Collector-Emitter Sustaining Voltage	I <sub>C</sub> = 50mA ; I <sub>B</sub> = 0	110			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 4A ; I <sub>B</sub> = 0.5A			2	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = 4A ; V <sub>CE</sub> = 4V			1.75	V
I <sub>CER</sub>	Collector Cutoff Current	V <sub>CE</sub> = 110V ; R <sub>BE</sub> = 100 Ω			1	mA
I <sub>CEO</sub>	Collector Cutoff Current	V <sub>CE</sub> = 95V ; I <sub>B</sub> = 0			5	mA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 5V ; I <sub>C</sub> = 0			1	mA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 4A ; V <sub>CE</sub> = 4V	15		75	
f <sub>T</sub>	Current Gain-Bandwidth Product	I <sub>C</sub> = 0.2A ; V <sub>CE</sub> = 10V		5		MHz