

**isc Silicon NPN Power Transistor**
**2N1702**
**DESCRIPTION**

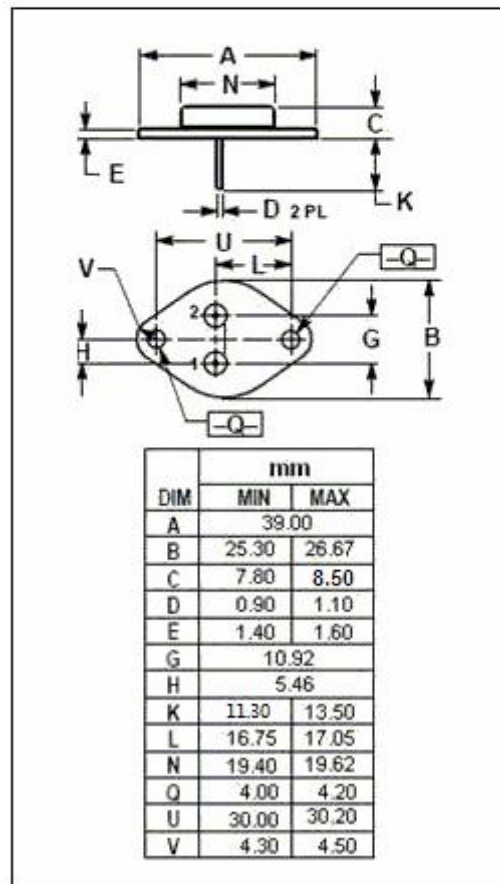
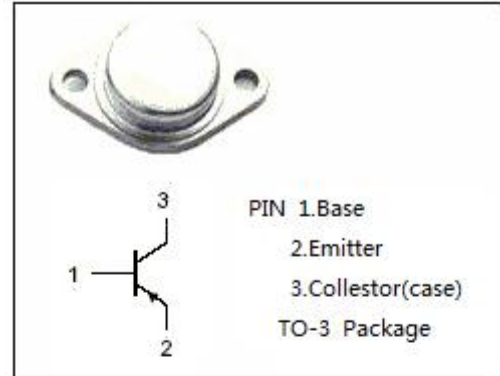
- Collector-Emitter Breakdown Voltage-  
:  $V_{CE0}=60V(\text{Min})$
- Minimum Lot-to-Lot variations for robust device  
Performance and reliable operation

**APPLICATIONS**

- Power amplifier and switching applications

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	60	V
$V_{CEO}$	Collector-Emitter Voltage	60	V
$V_{EBO}$	Emitter-Base Voltage	6	V
$I_C$	Collector Current-Continuous	5	A
$P_D$	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	75	W
$T_J$	Junction Temperature	-65~200	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-65~200	$^\circ\text{C}$




## isc Silicon NPN Power Transistor

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## ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>B</sub> =10μA	40			V
I <sub>CEO</sub>	Collector-Emitter Cutoff Current	V <sub>CE</sub> = 30V			40	μA
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> =0.8A; I <sub>B</sub> = 0.08A			3.2	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage 	I <sub>C</sub> = 0.8A; I <sub>B</sub> = 0.08A			3.5	V
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> =0.8A; V <sub>CE</sub> =4V	15		60	

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