

**isc Silicon NPN Power Transistor**
**2N6032**
**DESCRIPTION**

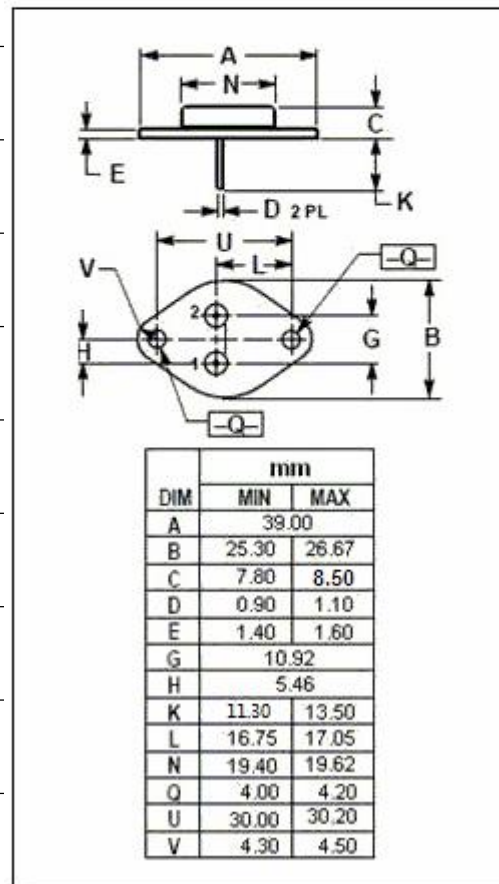
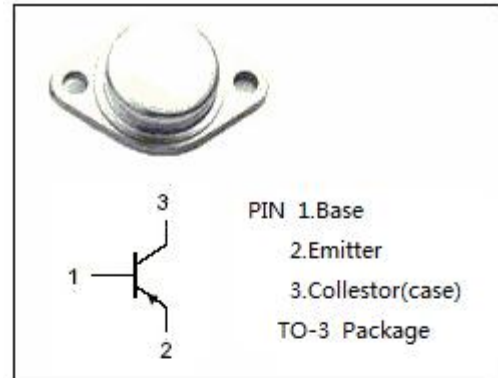
- Collector-Emitter Breakdown Voltage-  
:  $V_{(BR)CEO}=90V(\text{Min})$
- Minimum Lot-to-Lot variations for robust device  
Performance and reliable operation

**APPLICATIONS**

- Power amplifier and switching applications

**ABSOLUTE MAXIMUM RATINGS(Ta=25°C)**

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	120	V
$V_{CEO}$	Collector-Emitter Voltage	90	V
$V_{EBO}$	Emitter-Base Voltage	7	V
$I_C$	Collector Current-Continuous	50	A
$I_B$	Base Current-Continuous	10	A
$P_D$	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	140	W
$T_J$	Junction Temperature	200	°C
$T_{stg}$	Storage Temperature Range	-65~200	°C



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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>C</sub> =200mA	90			V
I <sub>CBO</sub>	Collector-Base Cutoff Current	V <sub>CB</sub> = 120V			25	mA
I <sub>CEO</sub>	Collector-Emitter Cutoff Current	V <sub>CB</sub> = 80V			10	mA
I <sub>EBO</sub>	Emitter-Base Cutoff Current	V <sub>EB</sub> = 7V			10	mA
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 50A; I <sub>B</sub> = 5A			1.3	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = 50A; I <sub>B</sub> = 5A			2	V
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 50A; V <sub>CE</sub> = 2.6V	10		50	

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