

**isc Silicon PNP Power Transistor**
**2N6331**
**DESCRIPTION**

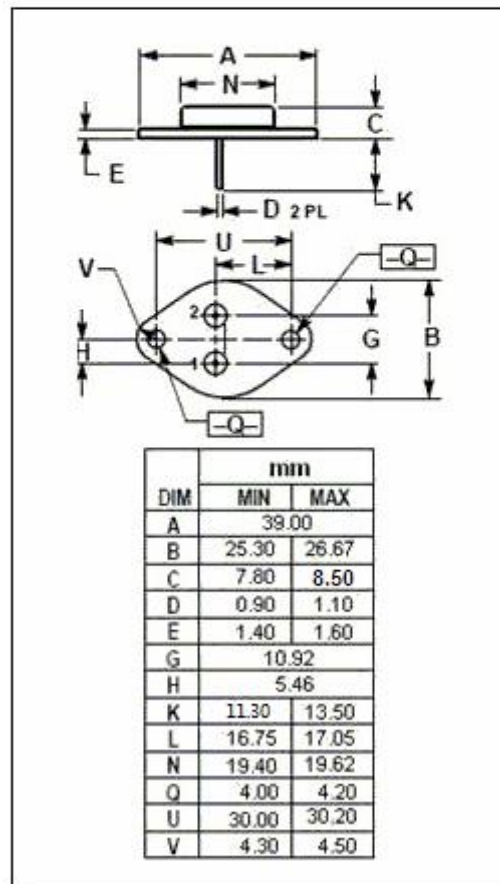
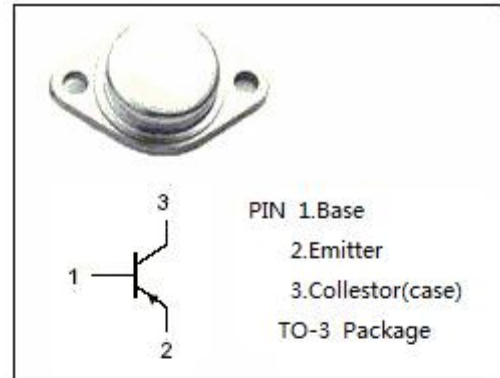
- Collector-Emitter Breakdown Voltage-  
:  $V_{CEO} = -100V$  (Min)
- Minimum Lot-to-Lot variations for robust device  
Performance and reliable operation

**APPLICATIONS**

- Power amplifier and switching applications

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-100	V
$V_{CEO}$	Collector-Emitter Voltage	-100	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current-Continuous	-30	A
$P_D$	Collector Power Dissipation @ $T_C = 25^\circ C$	200	W
$T_J$	Junction Temperature	-65~200	$^\circ C$
$T_{stg}$	Storage Temperature Range	-65~200	$^\circ C$



## isc Silicon PNP 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>C</sub> =-30mA	-100			V
I <sub>EBO</sub>	Emitter-Base Cutoff Current	V <sub>BE</sub> =-5V			-500	μA
I <sub>CEO</sub>	Collector-Emitter Cutoff Current	V <sub>CE</sub> = -50V			-1	mA
V <sub>CE(sat)-1</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> =-15A; I <sub>B</sub> = -2A			-1.5	V
V <sub>CE(sat)-2</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> =-30A; I <sub>B</sub> = -7.5A			-3	V
V <sub>BE(on)-1</sub>	Base-Emitter On Voltage	I <sub>C</sub> =-15A; V <sub>CE</sub> =-4V			-2	V
V <sub>BE(on)-2</sub>	Base-Emitter On Voltage	I <sub>C</sub> =-30A; V <sub>CE</sub> =-4V			-4	V
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> =-5A; V <sub>CE</sub> = -4V	25			
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> =-15A; V <sub>CE</sub> = -4V	12			
h <sub>FE-3</sub>	DC Current Gain	I <sub>C</sub> =-30A; V <sub>CE</sub> =-4V	6		30	

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