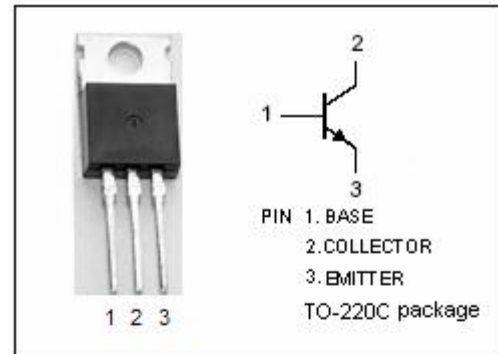


**isc Silicon NPN Power Transistor**
**2SC3250**
**DESCRIPTION**

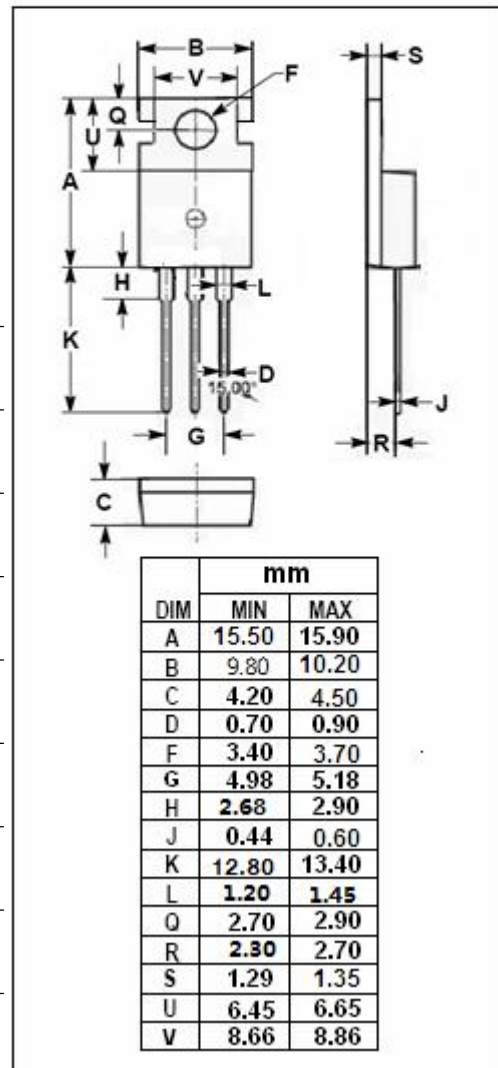
- Low Collector Saturation Voltage
- Collector-Emitter Breakdown Voltage-  
:  $V_{(BR)CEO} = 300V$  (Min)
- Good Linearity of  $h_{FE}$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


**APPLICATIONS**

- Designed for use in humidifier , DC/DC converter and general purpose applications

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	300	V
$V_{CEO}$	Collector-Emitter Voltage	300	V
$V_{EBO}$	Emitter-Base Voltage	7	V
$I_C$	Collector Current-Continuous	0.1	A
$I_{CM}$	Collector Current-Pulse	0.2	A
$P_C$	Collector Power Dissipation @ $T_c=25^\circ C$	15	W
$T_J$	Junction Temperature	150	$^\circ C$
$T_{stg}$	Storage Temperature Range	-55~150	$^\circ C$



## isc Silicon NPN Power Transistor

## 2SC3250

## 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 ; I <sub>B</sub> = 0	300			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 50mA; I <sub>B</sub> = 5mA			1.5	V
V <sub>BE(ON)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = 30mA ; V <sub>CE</sub> =10V			1.2	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 300V; I <sub>E</sub> = 0			100	μ A
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 7V; I <sub>C</sub> = 0			100	μ A
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = 5mA ; V <sub>CE</sub> = 50V	50		250	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = 30mA ; V <sub>CE</sub> = 10V	30			
f <sub>T</sub>	Current-Gain—Bandwidth Product	I <sub>E</sub> = 20mA ; V <sub>CE</sub> = 30V	70	100		MHz
C <sub>OB</sub>	Output Capacitance	I <sub>E</sub> = 0 ; V <sub>CB</sub> = 10V; f <sub>test</sub> = 1.0MHz		5		pF

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