

## isc Silicon NPN Transistor

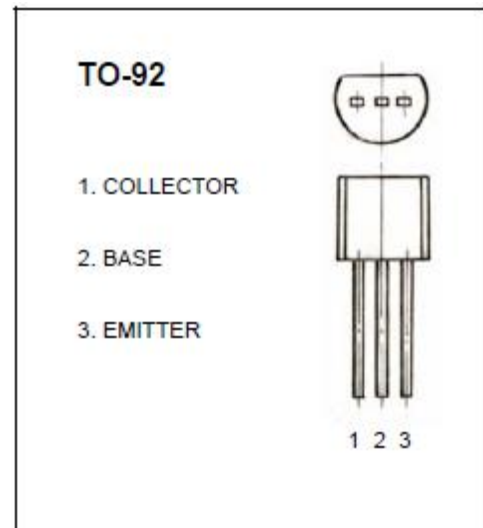
BC548

## DESCRIPTION

- High Voltage
- Complement to Type BC558
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## APPLICATIONS

- For TV and home appliance equipment.

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	30	V
$V_{CEO}$	Collector-Emitter Voltage	30	V
$V_{EBO}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current-Continuous	100	mA
$P_C$	Collector Power Dissipation @ $T_C=25^{\circ}\text{C}$	500	mW
$T_J$	Junction Temperature	150	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range	-65~150	$^{\circ}\text{C}$

**isc Silicon NPN Transistor****BC548****ELECTRICAL CHARACTERISTICS****T<sub>C</sub>=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> =100 μA; I <sub>E</sub> = 0	30			V
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = 2mA; I <sub>B</sub> = 0	30			V
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = 100 μA; I <sub>C</sub> = 0	5			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 100mA ; I <sub>B</sub> = 5mA			0.6	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = 100mA ; I <sub>B</sub> = 5mA			0.9	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 30V; I <sub>E</sub> = 0			0.1	μA
I <sub>CEO</sub>	Collector Cutoff Current	V <sub>CE</sub> = 30V; I <sub>B</sub> = 0			0.1	μA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 5V; I <sub>C</sub> = 0			0.1	μA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 2mA ; V <sub>CE</sub> = 5V	110		800	

**◆ h<sub>FE</sub> Classifications**

BC548A	BC548B	BC548C
110-220	200-450	420-800

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