

# **ISC Silicon NPN Power Transistor**

2SC3409

### **DESCRIPTION**

- Low Collector Saturation Voltage
- 100% avalanche tested
- · Good Linearity of hFE
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

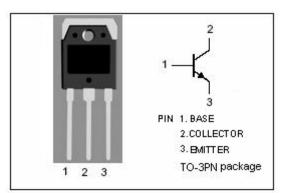
#### **APPLICATIONS**

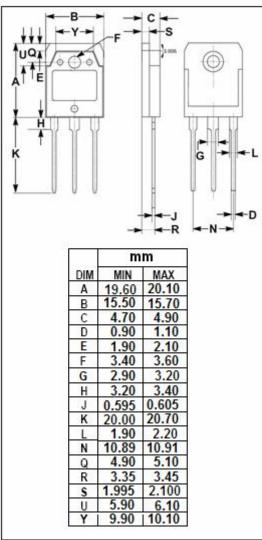


· Designed for use in humidifier , DC/DC converter and general purpose applications

## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V <sub>СВО</sub>	Collector-Base Voltage	900	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	800	V	
V <sub>EBO</sub>	Emitter-Base Voltage	10	V	
lc	Collector Current-Continuous	2	Α	
Ісм	Collector Current-Pulse	or Current-Pulse 5		
I <sub>B</sub>	Base Current-Continuous	0.5	Α	
Pc	Collector Power Dissipation @ T <sub>C</sub> =25℃	80	W	
TJ	Junction Temperature	150	${\mathbb C}$	
T <sub>stg</sub>	Storage Temperature Range	-55~150	$^{\circ}\!\mathbb{C}$	







## **isc Silicon NPN Power Transistor**

2SC3409

#### **ELECTRICAL CHARACTERISTICS**

T<sub>C</sub>=25℃ 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	800			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 1.5A; I <sub>B</sub> = 0.3A			5.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = 1.5A; I <sub>B</sub> = 0.3A			1.5	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 900V; I <sub>E</sub> = 0			100	μА
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 10V; I <sub>C</sub> = 0			100	μА
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 0.5A; V <sub>CE</sub> = 4V	15			



ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.