

# **isc** Silicon NPN Power Transistor

# 2SC1579

### DESCRIPTION

- With TO-3 Package
- High voltage
- · Wide area of safe operation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## APPLICATIONS

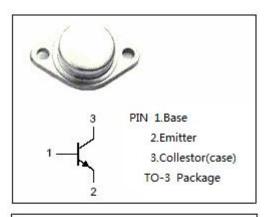
· Power amplifier applications

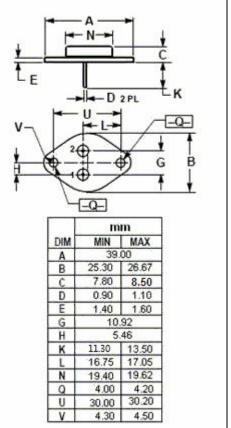
### ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	500	v
V <sub>CEO</sub>	Collector-Emitter Voltage	400	v
V <sub>EBO</sub>	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	15	А
Pc	Collector Power Dissipation 150		W
TJ	Junction Temperature	200	°C
T <sub>stg</sub>	Storage Temperature Range	-65~200	°C

#### **THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	МАХ	UNIT	
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	1.17	℃/W	





isc website: www.iscsemi.com



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## **ELECTRICAL CHARACTERISTICS**

T<sub>c</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	мах	UNIT
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> =10A; I <sub>B</sub> = 2A			1.5	V
V <sub>BE</sub> (sat)	Base-Emitter Saturation Voltage	I <sub>C</sub> =10A; I <sub>B</sub> = 2A			2.0	V
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = 10mA; I <sub>B</sub> = 0	400			V
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = 1mA; I <sub>C</sub> = 0	7			V
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> =5A; V <sub>CE</sub> = 4V	10		25	
Ісво	Collector Cutoff Current	V <sub>CB</sub> = 500V ; I <sub>E</sub> = 0			100	uA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> =7V; I <sub>C</sub> = 0			100	uA

# **NOTICE:**

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