

## **isc Silicon NPN Power Transistor**

# 2SC2488

### DESCRIPTION

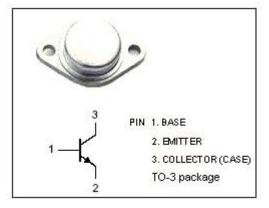
- Collector-Emitter Breakdown Voltage-
  - : V<sub>(BR)CEO</sub>= 150V(Min.)
- Good Linearity of  $h_{\text{FE}}$
- Wide Area of Safe Operation
- Complement to Type 2SA1064
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

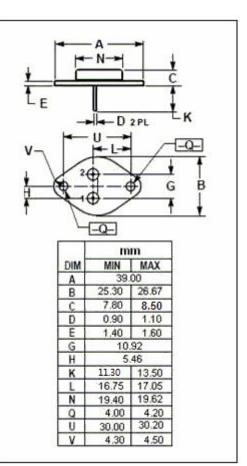
#### APPLICATIONS

• Designed for AF amplifier, high power amplifier applications.



SYMBOL	PARAMETER	VALUE	UNIT
V <sub>сво</sub>	Collector-Base Voltage	150	V
V <sub>CEO</sub>	Collector-Emitter Voltage	150	V
V <sub>EBO</sub>	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	8	А
I <sub>CM</sub>	Collector Current-Peak	12	A
Pc	Collector Power Dissipation @Tc=25°C	100	W
Tj	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature	-65~150	°C





isc website: www.iscsemi.com



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## ELECTRICAL CHARACTERISTICS

#### Tj=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> = 50mA; I <sub>B</sub> = 0	150			V
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 8A; I <sub>B</sub> = 0.8A			2.0	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = 8A; V <sub>CE</sub> = 5V			2.5	V
І <sub>сво</sub>	Collector Cutoff Current	V <sub>CB</sub> = 70V; I <sub>E</sub> = 0			1	mA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 5V; I <sub>C</sub> = 0			2	mA
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = 1A; V <sub>CE</sub> = 5V	40		280	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = 8A; V <sub>CE</sub> = 5V	20			
f⊤	Current-Gain—Bandwidth Product	I <sub>C</sub> = 0.5A; V <sub>CE</sub> = 10V		50		MHz

#### • h<sub>FE-2</sub> Classifications

R	Q	Р	О
40-80	60-120	90-180	140-280

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