

### *isc* Silicon NPN Darlingtion Power Transistor

# 2SD469

#### DESCRIPTION

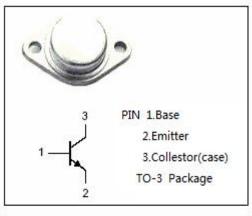
- Low Collector-Emitter Breakdown Voltage V<sub>(BR)CEO</sub>= 110V (Min)
- Collector Power Dissipation
- Pc=100W@TC=25℃
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

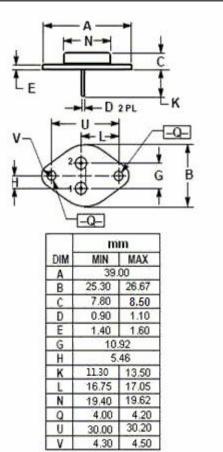
#### APPLICATIONS

• Designed for use in converters, inverters, switching regulators, motor control systems etc.

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

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	150	V
V <sub>CEO</sub>	Collector-Emitter Voltage	110	V
V <sub>EBO</sub>	Emitter-Base Voltage	10	V
Ιc	Collector Current -Continuous	10	А
Pc	Collector Power Dissipation@T <sub>c</sub> =25℃	100	W
Tj	Junction Temperature 150		°C
T <sub>stg</sub>	Storage Temperature	-65~150	°C







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### **ELECTRICAL CHARACTERISTICS**

#### $T_{c}\text{=}25^{\circ}\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = 10mA ; I <sub>B</sub> = 0	110		V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 3A; I <sub>B</sub> = 0.3A		1.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation voltage	I <sub>C</sub> = 3A; I <sub>B</sub> = 0.3A		1.5	V
І <sub>сво</sub>	Collector Cutoff current	V <sub>CB</sub> = 150V; I <sub>E</sub> =0		100	μA
I <sub>EBO</sub>	Emitter Cut-off current	V <sub>EB</sub> = 8V; I <sub>C</sub> = 0		0.1	mA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 1A ; V <sub>CE</sub> = 5V	40	80	200



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