

# **ISC Silicon NPN Power Transistor**

2SC4850

### **DESCRIPTION**

- · Low Collector Saturation Voltage
- · Collector-Emitter Breakdown Voltage-
  - : V<sub>(BR)CEO</sub>= 120V (Min)
- · Good Linearity of hFE
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

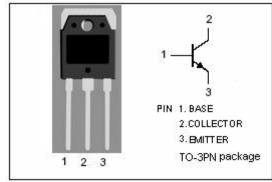


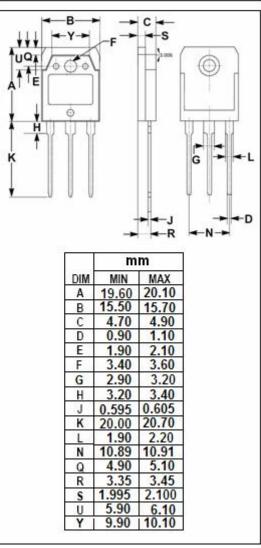
### **APPLICATIONS**

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

## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
$V_{CBO}$	Collector-Base Voltage	120	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	120	V	
V <sub>EBO</sub>	Emitter-Base Voltage	8	V	
Ic	Collector Current-Continuous	7	А	
Ісм	Collector Current-Pulse	14	А	
I <sub>B</sub>	Base Current-Continuous	2.5	А	
Pc	Collector Power Dissipation @ $T_c=25^{\circ}C$	60	W	
TJ	Junction Temperature	150	$^{\circ}$	
T <sub>stg</sub>	Storage Temperature Range	-55~150	$^{\circ}$	







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### **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	120			V
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 3A; I <sub>B</sub> = 0.3A			2.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = 3A; I <sub>B</sub> = 0.3A			1.5	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 120V; I <sub>E</sub> = 0			100	μА
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 8V; I <sub>C</sub> = 0			100	μА
h <sub>FE</sub>	DC current gain	I <sub>C</sub> = 3A; V <sub>CE</sub> = 5V	60		200	

### **NOTICE:**

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