



# **isc Silicon NPN Power Transistor**

#### **DESCRIPTION**

- · High Breakdown Voltage-
  - : V<sub>CBO</sub>= 1600V (Min)
- · High Speed Switching
- · High Reliability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

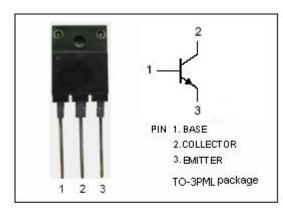
### **APPLICATIONS**

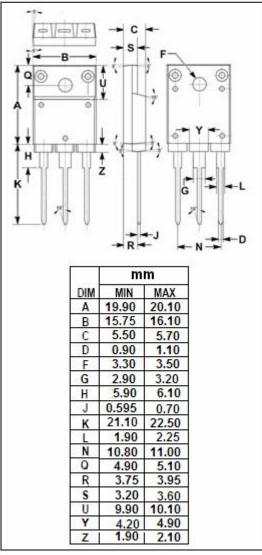


Color display horizontal deflection output

### ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
Vсво	Collector-Base Voltage	1600	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	800	V	
V <sub>EBO</sub>	Emitter-Base Voltage	6	V	
lc	Collector Current- Continuous	10	А	
Icp	Collector Current-Pulse	25	А	
Pc	Collector Power Dissipation @ $T_c$ =25 $^{\circ}$ C	70	W	
TJ	Junction Temperature	150	$^{\circ}$	
T <sub>stg</sub>	Storage Temperature Range	-55~150	$^{\circ}$	







## **isc Silicon NPN Power Transistor**

2SC5450

### **ELECTRICAL CHARACTERISTICS**

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CEO(SUS)</sub>	Collector-Emitter Sustaining Voltage	I <sub>C</sub> = 50mA; I <sub>B</sub> = 0	800			V
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 7A; I <sub>B</sub> = 1.75A			5.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = 7A; I <sub>B</sub> = 1.75A			1.5	V
Ісво	Collector Cutoff Current	V <sub>CB</sub> = 800V ; I <sub>E</sub> = 0			10	μА
I <sub>CES</sub>	Collector Cutoff Current	V <sub>CE</sub> = 1600V ; R <sub>BE</sub> = 0			1.0	mA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 4V ; I <sub>C</sub> = 0			1.0	mA
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = 1A ; V <sub>CE</sub> = 5V	15		30	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = 7A ; V <sub>CE</sub> = 5V	4		7	

### **NOTICE:**

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