

## **ISC Silicon NPN Power Transistor**

# 2SC4746

#### **DESCRIPTION**

- · High Breakdown Voltage-
  - : V<sub>CBO</sub>= 1500V (Min)
- · High Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

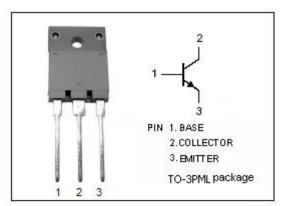


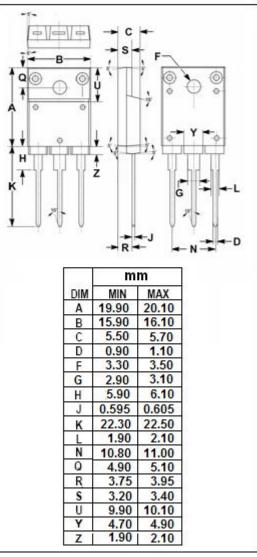
### **APPLICATIONS**

 Designed for character display horizontal deflection output stage applications

### ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	1500	V
Vceo	Collector-Emitter Voltage	800	V
V <sub>EBO</sub>	Emitter-Base Voltage	6	V
lc	Collector Current- Continuous	8	А
I <sub>C(surge)</sub>	Collector Current-Surge	20	А
Pc	Collector Power Dissipation @ T <sub>C</sub> =25°C	50	W
Тл	Junction Temperature	150	°C
Tstg	Storage Temperature Range	-55~150	°C







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### **ELECTRICAL CHARACTERISTICS**

 $T_c$ =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> = 10mA ; R <sub>BE</sub> = ∞	800			V
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = 10mA ; I <sub>C</sub> = 0	6			V
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 7A; I <sub>B</sub> = 1.4A			5.0	V
V <sub>BE</sub> (sat)	Base-Emitter Saturation Voltage	I <sub>C</sub> = 7A; I <sub>B</sub> = 1.4A			1.5	V
I <sub>CES</sub>	Collector Cutoff Current	V <sub>CE</sub> = 1500V ; R <sub>BE</sub> = 0			500	μ <b>A</b>
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 1A; V <sub>CE</sub> = 5V	8		38	
t <sub>f</sub>	Fall Time	I <sub>CP</sub> = 7A , I <sub>B1</sub> = 1.4A			0.5	μS

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