

ISC Silicon NPN Power Transistor

2SC4747

DESCRIPTION

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

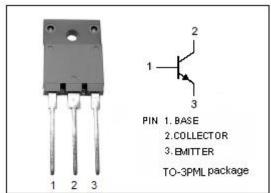


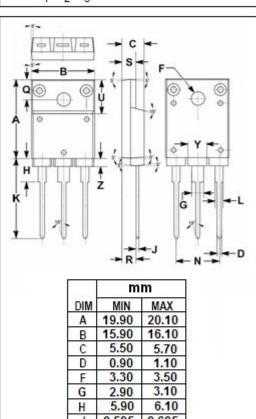
APPLICATIONS

 Designed for character display horizontal deflection output stage applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1500	V
Vceo	Collector-Emitter Voltage	800	V
V _{EBO}	Emitter-Base voltage	6	V
Ic	Collector Current- Continuous	10	А
I _{C(surge)}	Collector Current-Surge	20	А
Pc	Collector Power Dissipation @ T _C =25℃	50	W
TJ	Junction Temperature	150	$^{\circ}$
Tstg	Storage Temperature Range	-55~150	$^{\circ}$







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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA ; R _{BE} = ∞	800			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 10mA ; I _C = 0	6			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 1.6A			5.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 8A; I _B = 1.6A			1.5	V
I _{CES}	Collector Cutoff Current	V _{CE} = 1500V ; R _{BE} = 0			500	μА
h _{FE}	DC Current Gain	I _C = 1A ; V _{CE} = 5V			30	
t _f	Fall Time	I _{CP} = 7A , I _{B1} = 1.4A			0.3	μ \$

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