

isc Silicon NPN Power Transistor

2SC4796

DESCRIPTION

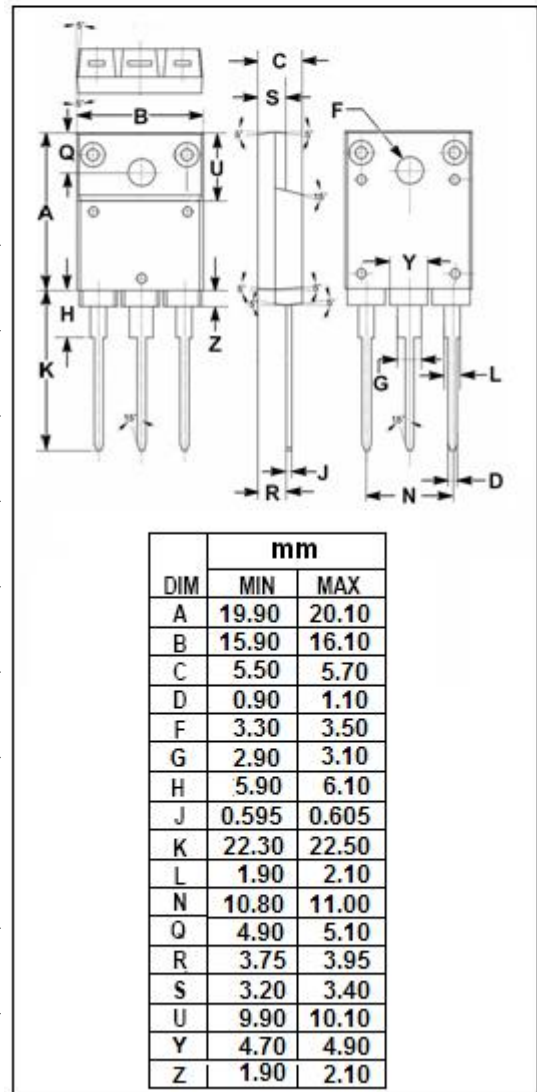
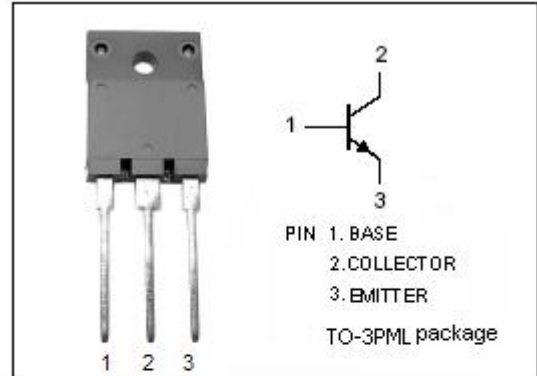
- High Breakdown Voltage-
: $V_{(BR)CBO} = 1700V(\text{Min})$
- High Switching Speed
- High Reliability
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Ultrahigh-definition color display horizontal deflection output applications

ABSOLUTE MAXIMUM RATINGS($T_a = 25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1700	V
V_{CEO}	Collector-Emitter Voltage	900	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	6	A
I_{CP}	Collector Current-Peak	16	A
P_C	Collector Power Dissipation @ $T_a = 25^\circ\text{C}$	2.5	W
	Collector Power Dissipation @ $T_c = 25^\circ\text{C}$	50	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



isc Silicon NPN Power Transistor**2SC4796****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE0(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 0.1A; I _B = 0	900			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.5	V
I _{CES}	Collector Cutoff Current	V _{CE} = 1700V; R _{BE} = 0			0.5	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			0.1	mA
h _{FE-1}	DC current gain	I _C = 1A; V _{CE} = 5V	10		35	

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