

isc Silicon NPN Power Transistor

2SC4963

DESCRIPTION

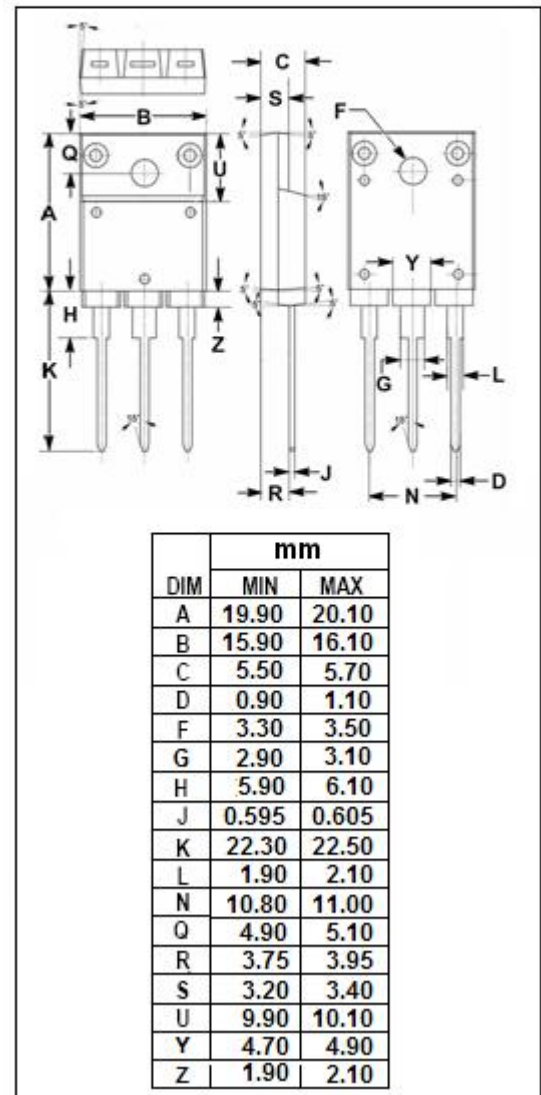
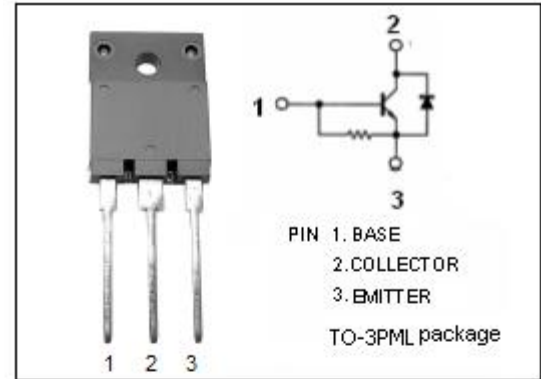
- High Breakdown Voltage
- High Switching Speed
- Built in damper diode
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Very high-definition CRT 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	800	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	8	A
I_{CP}	Collector Current-Peak	16	A
P_C	Collector Power Dissipation @ $T_a=25^{\circ}\text{C}$	5.0	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**2SC4963****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA; I _B = 0	800			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 7A; I _B = 1.4A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 7A; I _B = 1.4A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 800V ; I _E = 0			10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V ; I _C = 0	50		250	uA
h _{FE-1}	DC current gain	I _C = 1A ; V _{CE} = 5V	8			
h _{FE-2}	DC current gain	I _C = 7A ; V _{CE} = 5V	5			

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