

ISC Silicon NPN Power Transistor

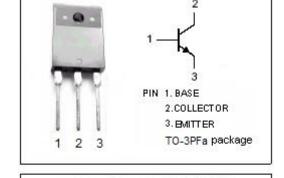
2SC4960

DESCRIPTION

- · High Collector-Base Breakdown Voltage-
- : V_{(BR)CBO}= 900V(Min)
- · High Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

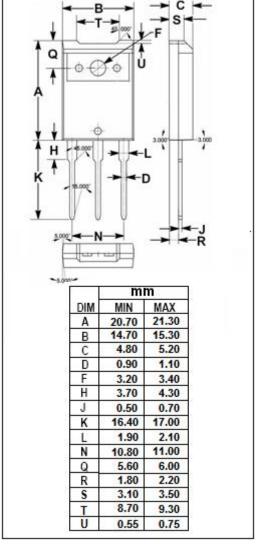
APPLICATIONS

• Designed for power switching applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	900	V
Vces	Collector-Emitter Voltage	900	V
V _{CEO}	Collector-Emitter Voltage	800	V
V _{EBO}	Emitter-Base voltage	7	V
lc	Collector Current-Continuous	1	Α
I _{CM}	Collector Current-Peak	2	Α
I _B	Base Current-Continuous 0.3		Α
P _C	Collector Power Dissipation @ T _c =25°C	40 W	
	Collector Power Dissipation @ T _a =25℃	3	VV
Тл	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

	10-23 C unless otherwise specified									
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA; I _B = 0	800			V				
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 0.2A; I _B = 40mA			1.5	V				
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 0.2A; I _B = 40mA			1.0	V				
Ісво	Collector Cutoff Current	V _{CB} = 900V; I _E = 0			50	μА				
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			50	μА				
h _{FE-1}	DC Current Gain	I _C = 50mA; V _{CE} = 5V	6							
h _{FE-2}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	3							
f _T	Current-Gain—Bandwidth Product	I _C = 50mA; V _{CE} = 10V; f= 1MHz		4		MHz				
Switching times										
t _{on}	Turn-On Time				1.0	μS				
tstg	Storage Time	I _C = 0.2A; I _{B1} = 40mA, I _{B2} = -80mA; V _{CC} = 250V			3.0	μS				
t _f	Fall Time				1.0	μS				

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