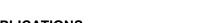


ISC Silicon NPN Power Transistor

2SC2943

DESCRIPTION

- · Low Collector Saturation Voltage
- · Low Collector-Emitter Breakdown Voltage
- · Good Linearity of hFE
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

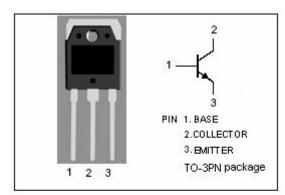


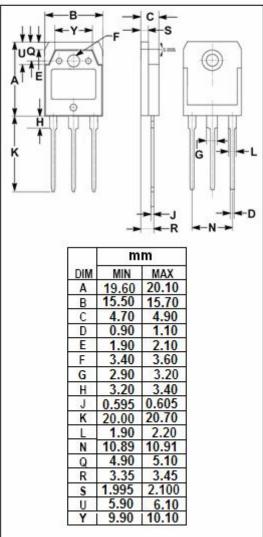
APPLICATIONS

· Designed for use in humidifier , DC/DC converter and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	390	V	
V _{CEO}	Collector-Emitter Voltage	250	V	
V _{EBO}	Emitter-Base Voltage	7	V	
lc	Collector Current-Continuous	5	Α	
Ісм	Collector Current-Pulse	15	Α	
lΒ	Base Current-Continuous	2.5	Α	
Pc	Collector Power Dissipation @ T_c =25 $^{\circ}$ C	80	W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	${\mathbb C}$	







ISC Silicon NPN Power Transistor

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA ; I _B = 0	250			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 6A; I _B = 1.2A			0.8	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 6A; I _B = 1.2A			1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} =350V; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			100	μА
h _{FE}	DC Current Gain	I _C = 2A ; V _{CE} = 5V	20			
f⊤	Current-Gain—Bandwidth Product	I _E = 1.0A; V _{CE} = 10V		20		MHz



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