

isc Silicon NPN Power Transistor

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 800V(Min)
- · High Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

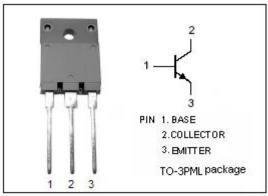


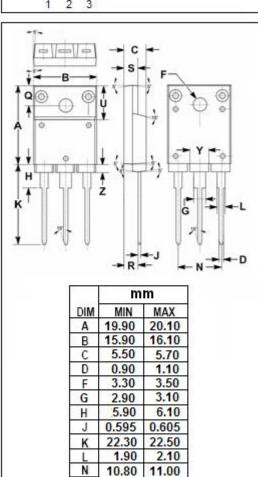
APPLICATIONS

• Designed for horizontal deflection output applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1400	V	
Vceo	Collector-Emitter Voltage	800	V	
V _{EBO}	Emitter-Base Voltage	7	V	
I _C	Collector Current-Continuous	6	Α	
Ісм	Collector Current-Peak	12	Α	
I _B	Base Current-Continuous	3	Α	
Pc	Collector Power Dissipation @T _C =25°C	80	W	
TJ	Junction Temperature	perature 150		
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	





Q

R

S

U

Υ

4.90

3.75

3.20

9.90

4.70

1.90

5.10

3.95

3,40

4.90

10.10



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2SC4303

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

1)-20 C united otherwise specified									
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	800			V			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.5A			1.0	V			
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.5A			1.5	V			
Ісво	Collector Cutoff Current	V _{CB} = 1200V; I _E = 0			100	μА			
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			100	μА			
h _{FE}	DC Current Gain	I _C = 2.5A; V _{CE} = 4V	6						
f⊤	Current-Gain—Bandwidth Product	I _E = -0.5A; V _{CE} = 12V		4		MHz			
Switching Times									
t _{stg}	Storage Time	I _C = 2.5A; I _{B1} = 0.5A; I _{B2} = -1A;			4.0	μ \$			
tf	Fall Time	V _{CC} = 250V; R _L = 100 Ω			0.3	μS			

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