

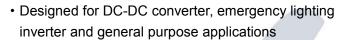
isc Silicon NPN Power Transistor

2SC3300

DESCRIPTION

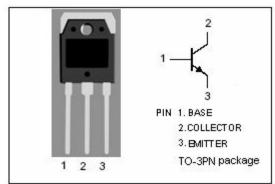
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 50V(Min)
- · Low Collector Saturation Voltage-
 - : V_{CE(sat)}= 0.5V(Max)@ I_C= 5A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

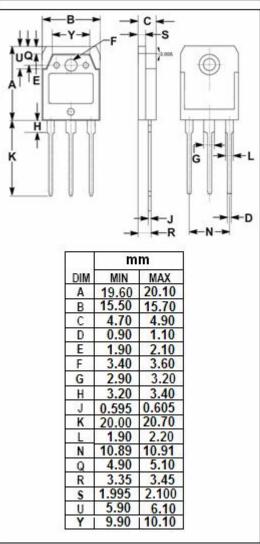
APPLICATIONS



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{CBO}	Collector-Base Voltage	100	V	
V _{CEO}	Collector-Emitter Voltage 50		V	
V _{EBO}	Emitter-Base Voltage	15	V	
Ic	Collector Current-Continuous	15	A	
Іср	Collector Current-Peak	25	А	
I _B	Base Current-Continuous	4	A	
Pc	Collector Power Dissipation @ T _C =25 ℃ 60		W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA; I _B = 0	50			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			0.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 100V ; I _E = 0			10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 15V ; I _C = 0			10	μА
h _{FE}	DC current gain	I _C = 5A ; V _{CE} = 1V	60		360	
f⊤	Current-Gain—Bandwidth Product	I _E = -1A ; V _{CE} = 12V		18		MHz

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