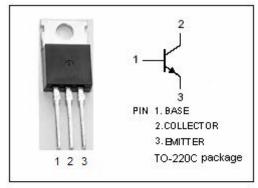


isc Silicon NPN Power Transistor

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DESCRIPTION

- Collector-Emitter Breakdown Voltage-
 - :V_{(BR)CEO}= 300(V)(Min.)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

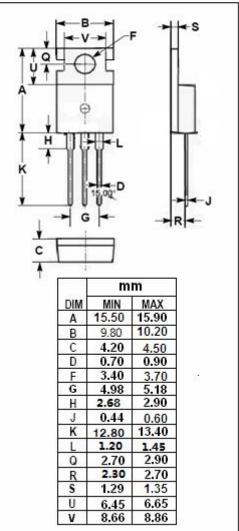


APPLICATIONS

· Series regulator, switch and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	300	V
V_{CEO}	Collector-Emitter Voltage	300	V
V _{EBO}	Emitter-Base Voltage 6		٧
Ic	Collector Current-Continuous	1	А
Pc	Total Power Dissipation @ T _C =25℃	30	W
TJ	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	°C





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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 = 25mA; I _B = 0	300			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 0.5A; I _B = 100mA			1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 300V; I _E = 0			1	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			1	mA
h _{FE}	DC Current Gain	I _C = 0.2A; V _{CE} = 4V	30			
fτ	Current-Gain—Bandwidth Product	I _E = 100mA; V _{CE} = 12V		10		MHz



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