

isc Silicon NPN Power Transistor

DESCRIPTION

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



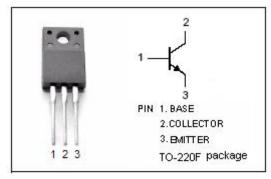
APPLICATIONS

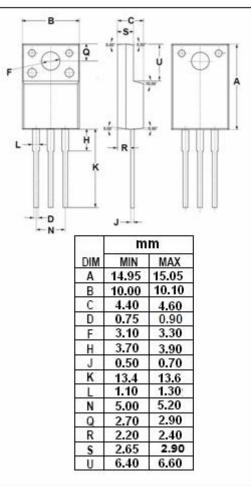
· Designed for switching regulator, lighting inverter and general purpose applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	300	V
V _{CEO}	Collector-Emitter Voltage	300	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	0.1	Α
I _B	Base Current-Continuous	20	mA
Pc	Collector Power Dissipation @T _C =25℃	2	W
TJ	Junction Temperature	150	$^{\circ}\!\mathbb{C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$







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2SC3229

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 20mA; I _B = 0	300			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 10mA; I _B = 1mA			1.0	V
Ісво	Collector Cutoff Current	V _{CB} = 240V; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			100	μА
h _{FE-1}	DC Current Gain	I _C = 0.5A; V _{CE} = 10V	20			
h _{FE-2}	DC Current Gain	I _C = 20mA; V _{CE} = 10V	30		200	
Сов	Output Capacitance	I _E = 0; V _{CB} = 20V; f= 1MHz		4		pF
f⊤	Current-Gain—Bandwidth Product	I _E = -20mA; V _{CE} = 20V		75		MHz

NOTICE:

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