

isc Silicon NPN Power Transistor

2SC3229

DESCRIPTION

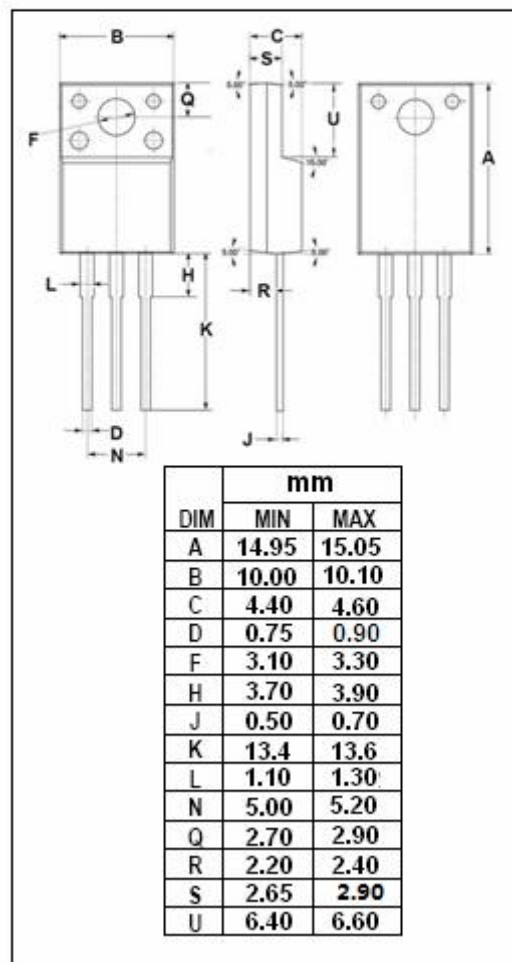
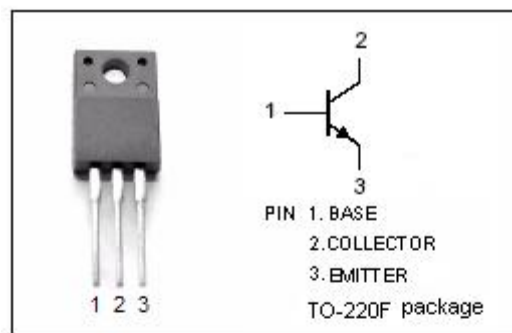
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 300V(\text{Min})$
- High Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

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
I_C	Collector Current-Continuous	0.1	A
I_B	Base Current-Continuous	20	mA
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	2	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

Tj=25°C 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
I_{CBO}	Collector Cutoff Current	$V_{CB} = 240V; I_E = 0$			100	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = 5V; I_C = 0$			100	μA
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	
C_{OB}	Output Capacitance	$I_E = 0; V_{CB} = 20V; f = 1MHz$		4		pF
f_T	Current-Gain—Bandwidth Product	$I_E = -20mA; V_{CE} = 20V$		75		MHz

NOTICE:

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