isc Silicon NPN Pow Transistor 2SC2229

DESCRIPTION

- High breakdown voltage
- Low output capacitance
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

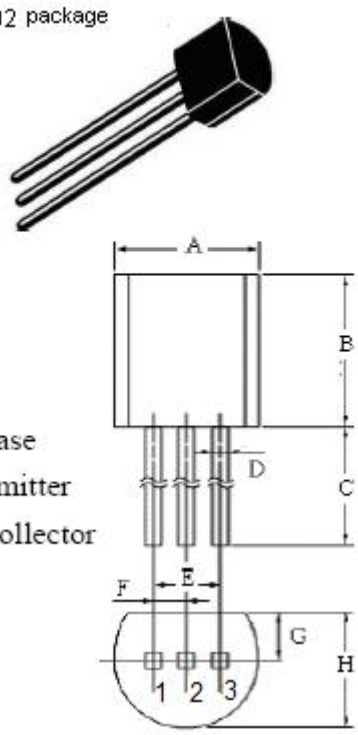
APPLICATIONS

- High voltage switching applications
- Driver stage audio amplifier applications
- Black and white TV video output applications

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	200	V
V_{CEO}	Collector-Emitter Voltage	1500	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	50	mA
I_E	Emitter Current-Continuous	-50	mA
P_C	Collector Power Dissipation @T_C=25℃	0.8	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃

TO-92 package



1: Base
2: Emitter
3: Collector

DIM	mm	
	MIN	MAX
A	4.33	4.83
B	4.33	4.83
C	14.0	15.0
D	0.36	0.56
E	2.54	
F	1.27	
G	0. 92	1. 12
H	3.40	3.60

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 10mA ; I_B= 1mA			0.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= 10mA ; I_B= 1mA			1.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 200V; I_E= 0			0.1	μ A
h_{FE}	DC Current Gain	I_C= 10mA ; V_{CE}= 5V	70		240	
f_T	Current-Gain—Bandwidth Product	I_C= 10mA ; V_{CE}= 30V		120		MHz
C_{OB}	Output Capacitance	I_E= 0 ; V_{CB}= 10V;f= 1.0MHz			5	pF

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