

isc Silicon NPN Power Transistor

2SC1929

DESCRIPTION

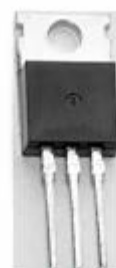
- Si NPN planar
- Collector-Emitter Breakdown Voltage-
:V_{(BR)CEO}= 300(V)(Min.)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

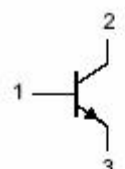
- AF output for direct main operation TV

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	300	V
V _{CEO}	Collector-Emitter Voltage	300	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current-Continuous	0.4	A
P _C	Total Power Dissipation @ T _C =25°C	25	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



1 2 3

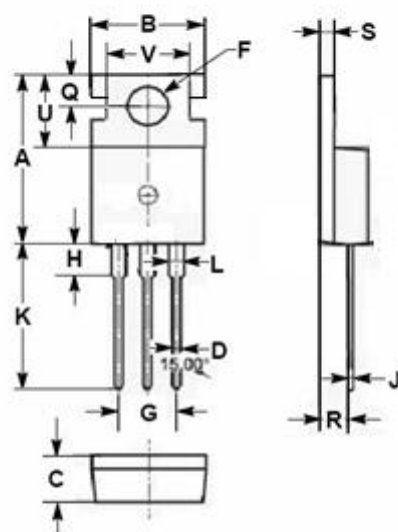


PIN 1. BASE

2. COLLECTOR

3. EMITTER

TO-220C package



DIM	mm	
	MIN	MAX
A	15.50	15.90
B	9.80	10.20
C	4.20	4.50
D	0.70	0.90
F	3.40	3.70
G	4.98	5.18
H	2.68	2.90
J	0.44	0.60
K	12.80	13.40
L	1.20	1.45
Q	2.70	2.90
R	2.30	2.70
S	1.29	1.35
U	6.45	6.65
V	8.66	8.86

isc Silicon NPN Power Transistor**2SC1929****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA; I _B = 0	300			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 500mA; I _B = 50mA			2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 100mA; V _{CE} = 5V			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 300V; I _E = 0			1	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			1	uA
h _{FE-1}	DC Current Gain	I _C = 100mA; V _{CE} = 5V	35		330	
h _{FE-2}	DC Current Gain	I _C = 300mA; V _{CE} = 5V	30			
f _T	Current-Gain—Bandwidth Product	I _E = 100mA; V _{CE} = 10V		80		MHz

◆ h_{FE-1} Classifications

S	R	Q	P
35-70	60-120	100-200	165-330

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