

# isc Silicon NPN Power Transistor

## 2SC1722

### DESCRIPTION

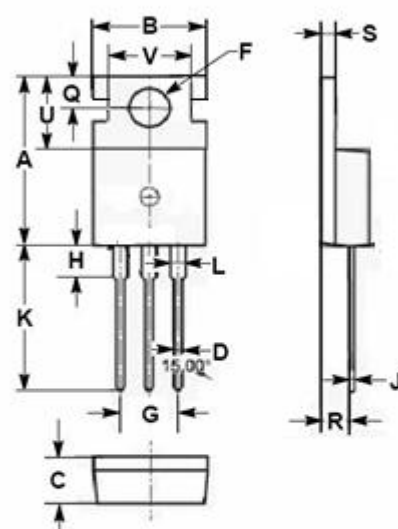
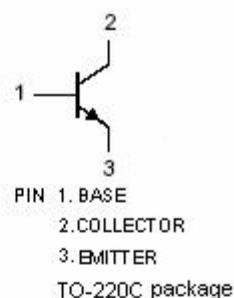
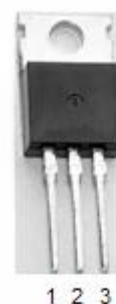
- Silicon NPN triple diffused mesa
- High breakdown voltage
- Large collector dissipation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### APPLICATIONS

- Low frequency power amplifier
- TV horizontal/vertical drivers

### 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	0.2	A
$P_c$	Collector Power Dissipation @ $T_c=25^{\circ}\text{C}$	1.8	W
$T_J$	Junction Temperature	150	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range	-45~150	$^{\circ}\text{C}$



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****2SC1722****ELECTRICAL CHARACTERISTICS****T<sub>c</sub>=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = 5mA ; I <sub>B</sub> = 0	300			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 50mA; I <sub>B</sub> = 5mA			2.0	V
V <sub>BE(ON)</sub>	Base-Emitter ON Voltage	I <sub>C</sub> = 50mA ; V <sub>CE</sub> = 10V			0.9	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 250V ; I <sub>E</sub> = 0			0.1	μ A
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 5V; I <sub>C</sub> = 0			10	μ A
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 50mA ; V <sub>CE</sub> = 10V	50		300	

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