

isc Silicon NPN Power Transistor

2SC1723

DESCRIPTION

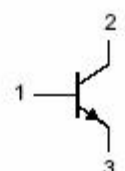
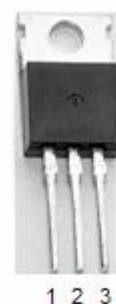
- Silicon NPN triple diffused LTP
- High breakdown voltage
- Large collector dissipation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

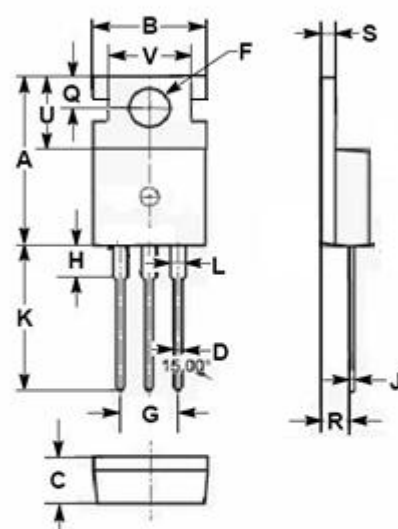
- Low frequency high voltage power amplifier
- TV power supply drivers

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 @ $T_C=25^{\circ}\text{C}$	15	W
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-45~150	$^{\circ}\text{C}$



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

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ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C=5\text{mA}$; $I_B=0$	300			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=100\text{mA}$; $I_B=10\text{mA}$			1.5	V
$V_{BE(ON)}$	Base-Emitter ON Voltage	$I_C=50\text{mA}$; $V_{CE}=10\text{V}$			0.9	V
I_{CBO}	Collector Cutoff Current	$V_{CB}=250\text{V}$; $I_E=0$			0.1	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB}=5\text{V}$; $I_C=0$			10	μA
h_{FE}	DC Current Gain	$I_C=50\text{mA}$; $V_{CE}=10\text{V}$	40		200	

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