

isc Silicon NPN Power Transistor

2SC1756

DESCRIPTION

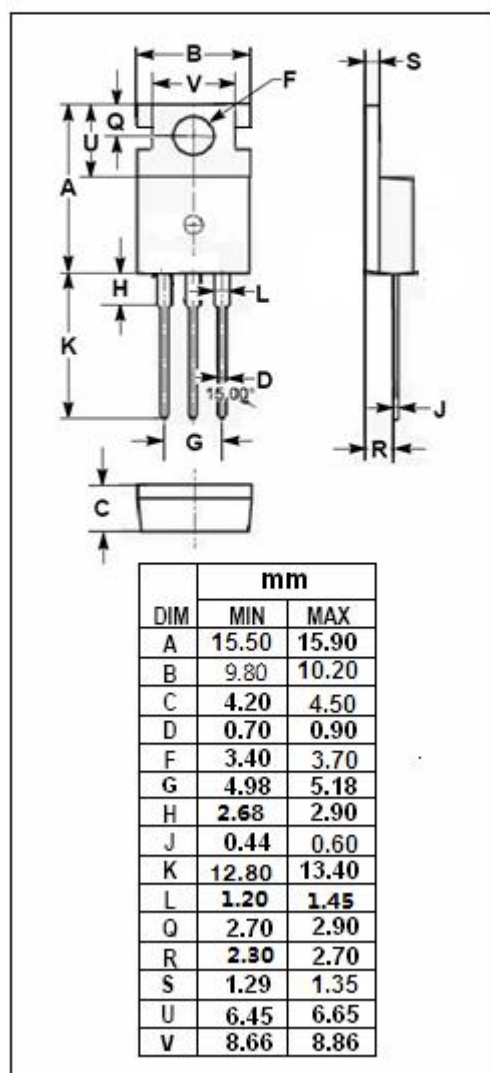
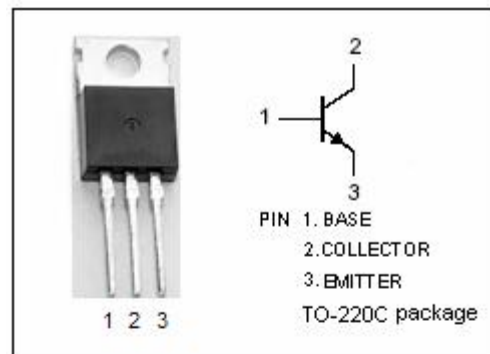
- High breakdown voltage
- Large collector dissipation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- AF output of color TV for video output
- AF output of B/W TV

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	7	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	$^{\circ}\text{C}$



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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	$I_C=10\text{mA}$; $I_B=0$	300			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=50\text{mA}$; $I_B=5\text{mA}$			2.0	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	$I_C=10\text{mA}$; $V_{CE}=10\text{V}$	40		200	

◆ h_{FE} Classifications

C	D	E
40-80	60-120	100-200

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