

isc Silicon NPN Power Transistor

2SC2556

DESCRIPTION

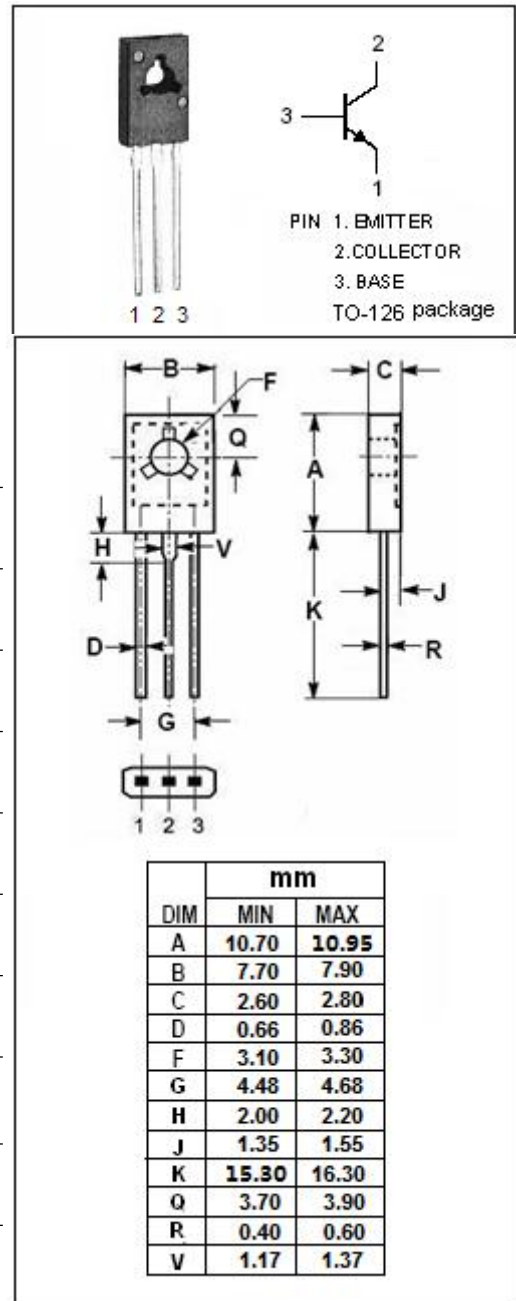
- High transistor frequency
- Low Saturation Voltage
- High V_{CBO}
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Audio frequency output amplifier

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	130	V
V_{CER}	Collector-Emitter Voltage $R_{BE}=150\ \Omega$	130	V
V_{CEO}	Collector-Emitter Voltage	40	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	1	A
I_{CM}	Collector Current-Peak	1.5	A
P_C	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	5	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=0.5\text{A}; I_B=0.05\text{A}$			0.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB}=130\text{V}; I_E=0$			1	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB}=5\text{V}; I_C=0$			1	μA
h_{FE-1}	DC Current Gain	$I_C=500\text{mA}; V_{CE}=2\text{V}$	150			
h_{FE-2}	DC Current Gain	$I_C=1\text{A}; V_{CE}=0.5\text{V}$	150		350	

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