

isc Silicon NPN Power Transistor
2SC1163
DESCRIPTION

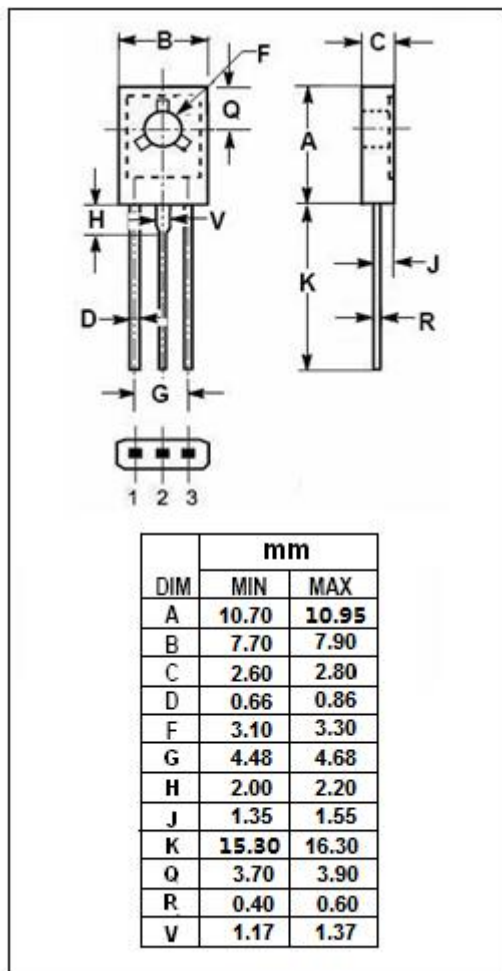
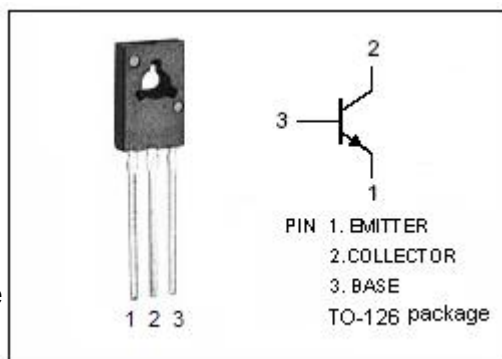
- High Collector Current $I_C = 0.1A$
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 300V(\text{Min})$
- Good Linearity of h_{FE}
- Low Collector Saturation Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

APPLICATIONS

- Designed for low frequency power amplifier applications.

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	4	V
I_C	Collector Current-Continuous	0.1	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	20.8	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^\circ\text{C}$



isc Silicon NPN Power Transistor**2SC1163****ELECTRICAL CHARACTERISTICS**T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA ; I _E = 0	300			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA ; R _{BE} = ∞	300			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA ; I _C = 0	4			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 50mA ; I _B = 5mA			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 50mA ; I _B = 5mA			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 300V ; I _E = 0			0.1	μ A
h _{FE}	DC Current Gain	I _C = 50mA ; V _{CE} = 10V	30		240	

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