

isc Silicon NPN Power Transistor

2SD1180

DESCRIPTION

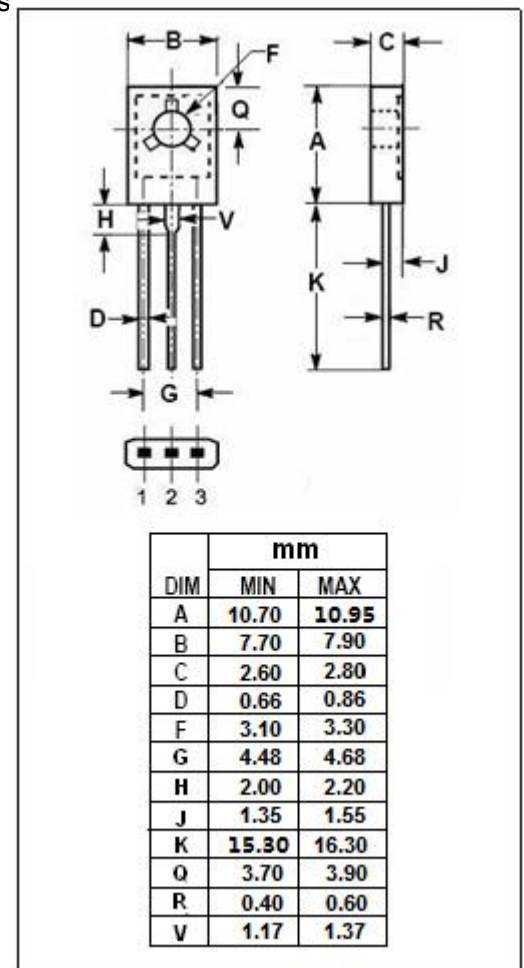
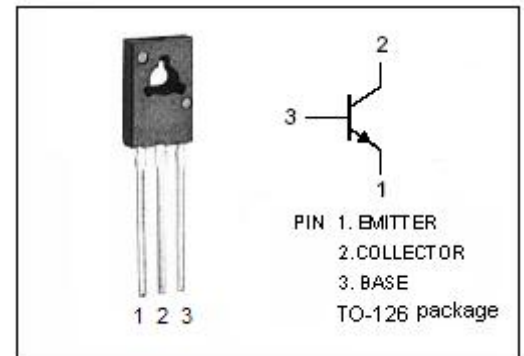
- High Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 110V$ (Min)
- Low collector saturation voltage
- With TO-126 package
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for use in audio and radio frequency power amplifiers applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	120	V
V_{CEO}	Collector-Emitter Voltage	110	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	1.5	A
I_{CM}	Collector Current-Peak	2.5	A
P_C	Collector Power Dissipation @ $T_a=25^\circ C$	1.2	W
	Collector Power Dissipation @ $T_c=25^\circ C$	20	
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



isc Silicon NPN Power Transistor**2SD1180****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; R _{BE} = ∞	100			V
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =100μA; I _E =0	120			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 0.1mA; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.2A			0.7	V
V _{BE(sat)}	Base-emitter saturation voltage	I _C = 1A; I _B = 0.2A			1.3	V
I _{CBO}	Collector Cutoff Current	V _{CE} = 120V; I _E = 0			1	μ A
I _{EBO}	Emitter cut-off current	V _{EB} =3V; I _C =0			1	μ A
h _{FE}	DC Current Gain	I _C =150mA; V _{CE} = 5V	100			

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