

isc Silicon PNP Power Transistor
2SA1383
DESCRIPTION

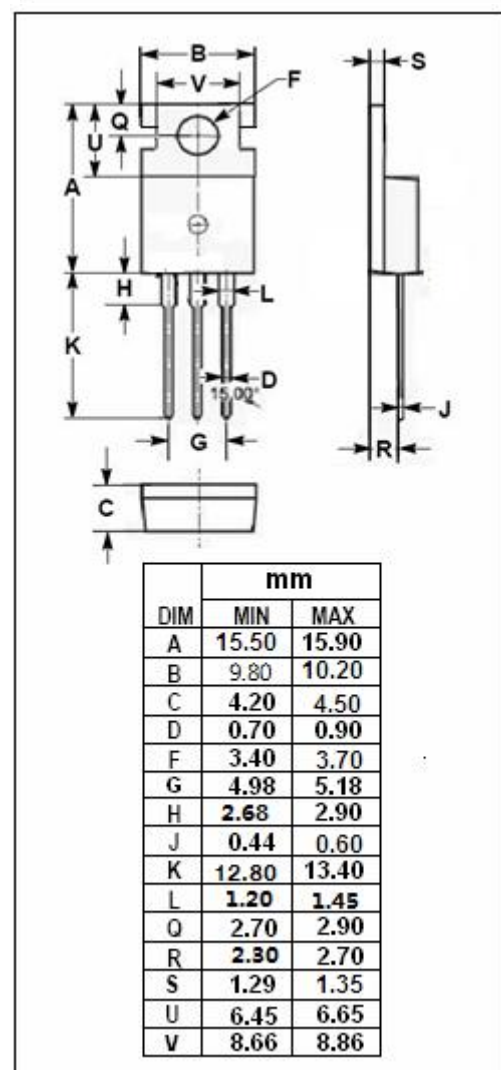
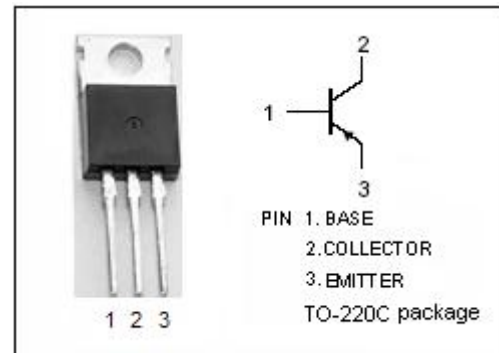
- TO-220 package
- High Collector-Emitter Breakdown Voltage
- Good Linearity of h_{FE}
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Audio frequency power amplifier

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-180	V
V_{CEO}	Collector-Emitter Voltage	-180	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-0.1	A
P_T	Total Power Dissipation @ $T_C=25^\circ\text{C}$	10	W
	Total Power Dissipation @ $T_a=25^\circ\text{C}$	1.5	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -1mA ; R _{BE} = ∞	-180			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -50mA ; I _B = -5mA			-0.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -50mA ; I _B = -5mA			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -180V ; I _E =0			-1	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -3V ; I _C =0			-1	μ A
h _{FE1}	DC Current Gain	I _C = -1mA ; V _{CE} = -5V	90			
h _{FE2}	DC Current Gain	I _C = -10mA ; V _{CE} = -5V	100		300	
f _T	Current-Gain—Bandwidth Product	I _C =-20mA ; V _{CE} = -10V		50		MHz

◆ h_{FE-2} Classifications

Q	P
100-200	160-320

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