

isc Silicon PNP Power Transistor
2SA1988
DESCRIPTION

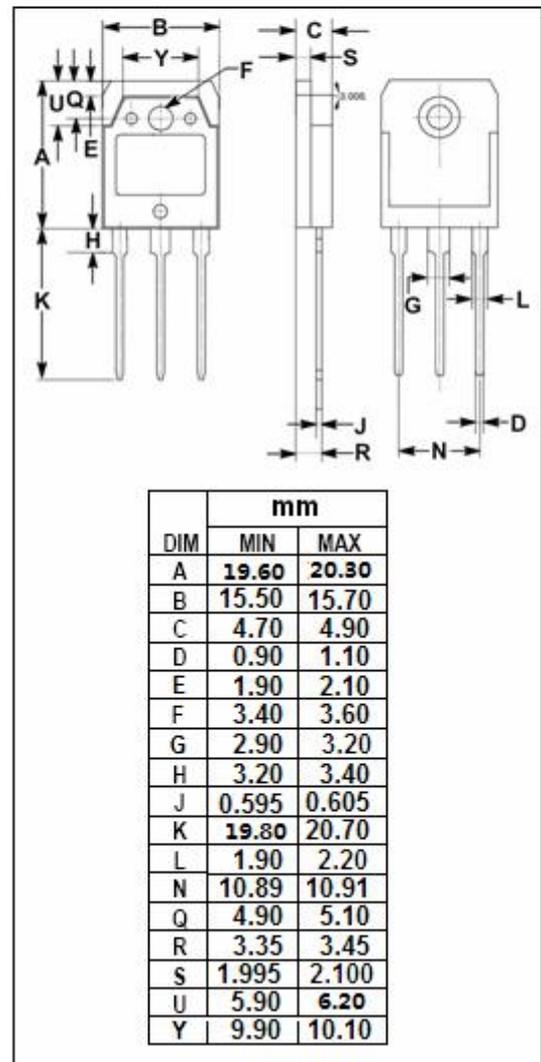
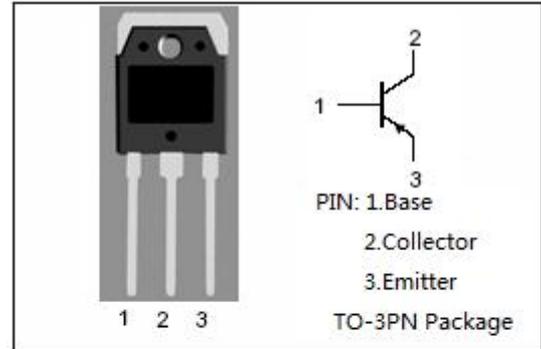
- High Voltage
- TO-3P package
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- The 2SA1988 is PNP silicon power transistor that designed for audio frequency power amplifier

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-200	V
V_{CEO}	Collector-Emitter Voltage	-200	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-7	A
P_C	Collector Power Dissipation @ $T_a=25^\circ\text{C}$	20	W
	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	100	
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 _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA ; I _B = 0	-200			V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -500mA ; V _{CE} = -5V			-2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -200V ; I _E =0			-50	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -3V ; I _C =0			-50	μ A
h _{FE}	DC Current Gain	I _C = -1A ; V _{CE} = -5V	70		200	
C _{OB}	Output Capacitance	I _E = 0 ; V _{CB} = -10V ; f= 1MHz		270		pF
f _T	Current-Gain—Bandwidth Product	I _C = -1mA ; V _{CE} = -5V		40		MHz

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