

isc Silicon PNP Power Transistor

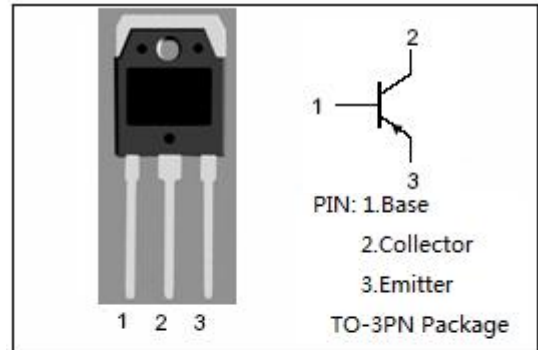
2SA2120

DESCRIPTION

- Recommended for audio frequency amplifier output stage
- Complementary to 2SC5948
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

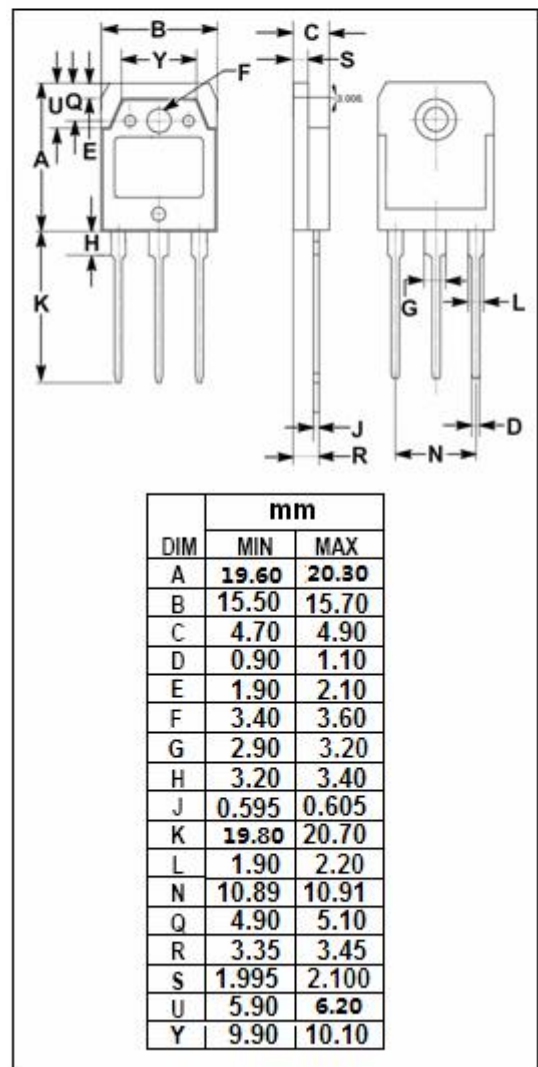
APPLICATIONS

- Power amplifier applications



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	-12	A
I_{CM}	Collector Current-Pulse	-24	A
P_C	Collector Power Dissipation @ $T_a=25^\circ\text{C}$	4.0	W
	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	200	
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 = -50mA ; I _B = 0	-200			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -8A; I _B = -800mA			-3.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -7A ; V _{CE} = -5V			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -200V ; I _E =0			-5	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C =0			-5	uA
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -5V	55		160	
h _{FE-2}	DC Current Gain	I _C = -7A; V _{CE} = -5V	35			

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