

## isc Silicon PNP Power Transistor

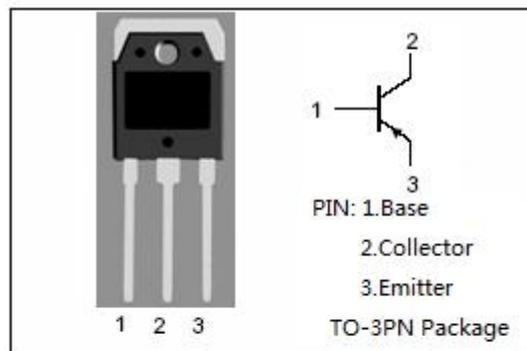
## 2SA2120

### 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

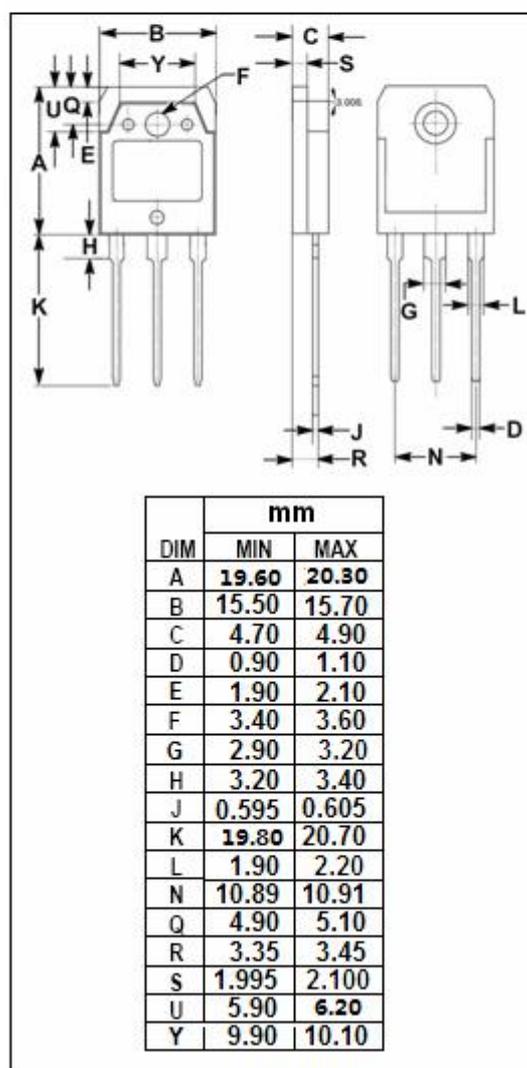
### APPLICATIONS

- 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

Tj=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -50mA ; I <sub>B</sub> = 0	-200			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -8A; I <sub>B</sub> = -800mA			-3.0	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = -7A ; V <sub>CE</sub> = -5V			-1.5	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -200V ; I <sub>E</sub> =0			-5	uA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V; I <sub>C</sub> =0			-5	uA
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = -1A; V <sub>CE</sub> = -5V	55		160	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -7A; V <sub>CE</sub> = -5V	35			

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