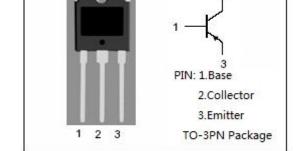


# isc Silicon PNP Power Transistor

## **DESCRIPTION**

- Collector-Emitter Breakdown Voltage-V<sub>(BR)CEO</sub>= -100V(Min)
- · Good Linearity of hFE
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

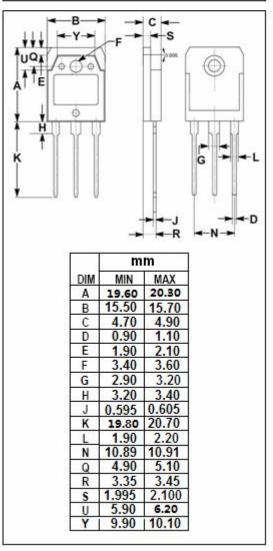


### **APPLICATIONS**

· Designed for audio power amplifier applications

# ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>СВО</sub>	Collector-Base Voltage	-100	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-100	V
V <sub>EBO</sub>	Emitter-Base Voltage	-6	V
lc	Collector Current-Continuous	-7	Α
I <sub>B</sub>	Base Current-Continuous	-3	Α
Pc	Collector Power Dissipation @ T <sub>C</sub> =25°C	70	W
TJ	T <sub>J</sub> Junction Temperature		$^{\circ}$
T <sub>stg</sub> Storage Temperature Range		-55~150	$^{\circ}$





## isc Silicon PNP Power Transistor

2SA1103

#### **ELECTRICAL CHARACTERISTICS**

T<sub>c</sub>=25℃ 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	-100			٧
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -3A; I <sub>B</sub> = -0.3A			-1.5	V
І <sub>СВО</sub>	Collector Cutoff Current	V <sub>CB</sub> = -100V; I <sub>E</sub> = 0			-10	μА
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -6V; I <sub>C</sub> = 0			-10	μА
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = -3A; V <sub>CE</sub> = -4V	50		180	
f <sub>T</sub>	Current-Gain—Bandwidth Product	I <sub>E</sub> = 0.5A; V <sub>CE</sub> = -12V		20		MHz
Сов	Output Capacitance	I <sub>E</sub> = 0; V <sub>CB</sub> = -10V; f= 1.0MHz		200		pF

## h<sub>FE</sub> Classifications

0	Р	Y		
50-100	70-140	90-180		

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