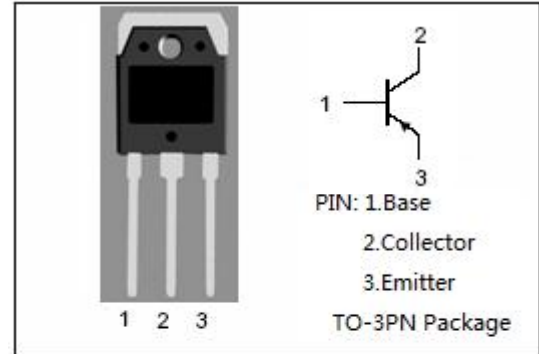


**isc Silicon PNP Power Transistor**
**2SA1294**
**DESCRIPTION**

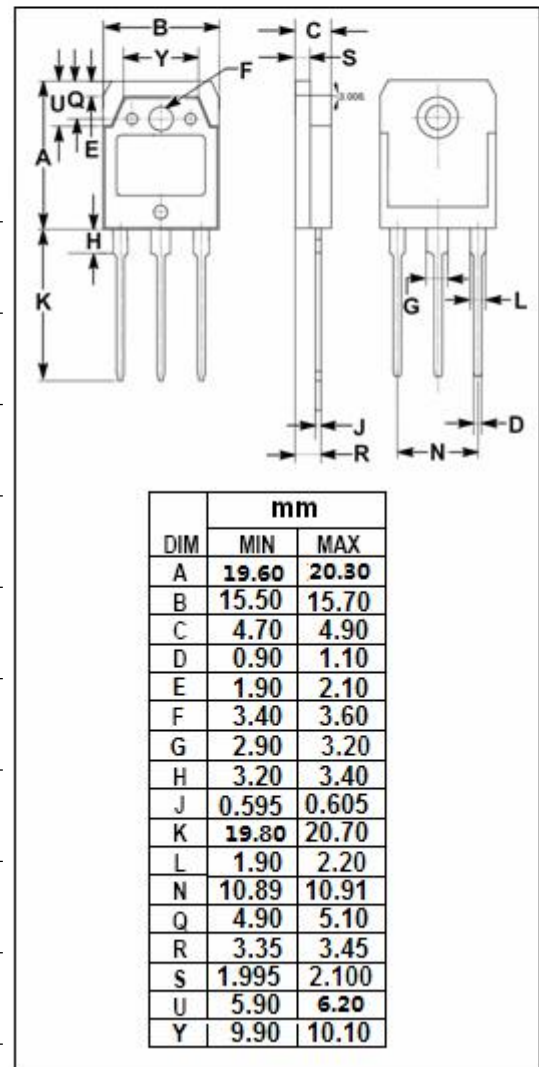
- High Collector-Emitter Breakdown Voltage-  
 $V_{(BR)CEO} = -230V(\text{Min})$
- Good Linearity of  $h_{FE}$
- Complement to Type 2SC3263
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


**APPLICATIONS**

- Designed for audio and general purpose applications

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-230	V
$V_{CEO}$	Collector-Emitter Voltage	-230	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current-Continuous	-15	A
$I_B$	Base Current-Continuous	-4	A
$P_C$	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	130	W
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^\circ\text{C}$



**isc Silicon PNP Power Transistor****2SA1294****ELECTRICAL CHARACTERISTICS**T<sub>c</sub>=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> = -25mA ; I <sub>B</sub> = 0	-230			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -5.0A; I <sub>B</sub> = -0.5A			-2.0	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -230V ; I <sub>E</sub> = 0			-100	μ A
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V; I <sub>C</sub> = 0			-100	μ A
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = -5A ; V <sub>CE</sub> = -4V	50		140	
C <sub>OB</sub>	Output Capacitance	I <sub>E</sub> = 0 ; V <sub>CB</sub> = -10V;f= 1.0MHz		500		pF
f <sub>T</sub>	Current-Gain—Bandwidth Product	I <sub>E</sub> = 2A ; V <sub>CE</sub> = -12V		35		MHz

## Switching Times

t <sub>on</sub>	Turn-on Time			0.35		μ s
t <sub>stg</sub>	Storage Time	I <sub>C</sub> = -5A, R <sub>L</sub> = 12 Ω, I <sub>B1</sub> = -I <sub>B2</sub> = -0.5A, V <sub>CC</sub> = -60V		1.5		μ s
t <sub>f</sub>	Fall Time			0.3		μ s

◆ h<sub>FE</sub> Classifications

O	Y
50-100	70-140

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