

**isc Silicon PNP Power Transistor**
**2SA1111**
**DESCRIPTION**

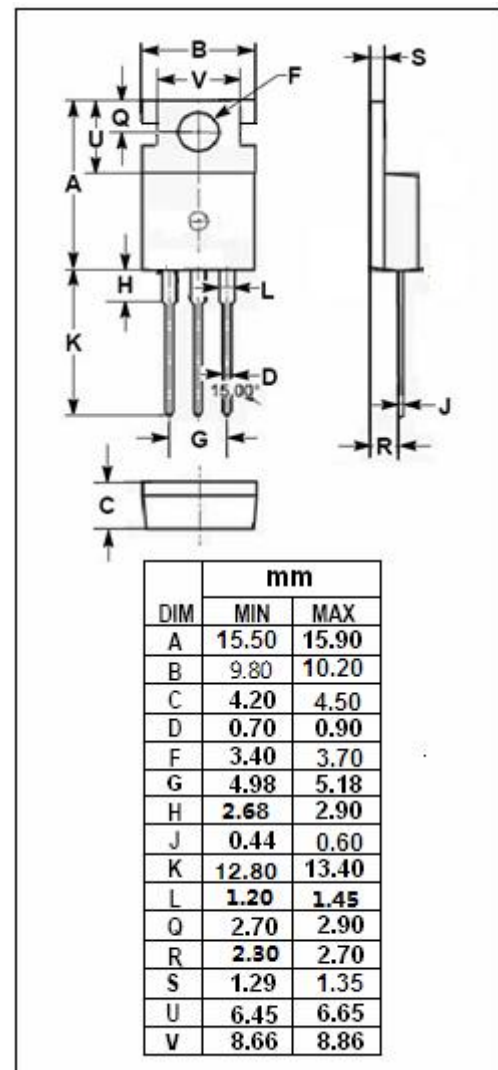
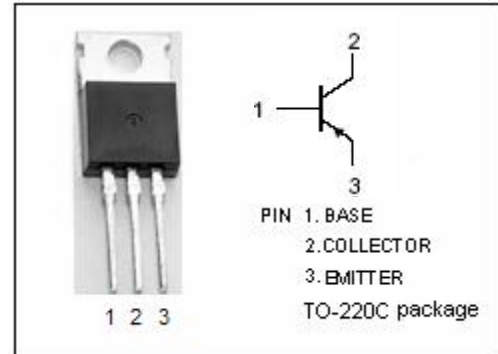
- Collector-Emitter Breakdown Voltage-  
 $V_{(BR)CEO} = -150V$  (Min)
- Good Linearity of  $h_{FE}$
- Complement to Type 2SC2591
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Designed for audio frequency drivers and high power amplifier applications.

**ABSOLUTE MAXIMUM RATINGS(Ta=25°C)**

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-150	V
$V_{CEO}$	Collector-Emitter Voltage	-150	V
$V_{EBO}$	Emitter-Base Voltage	-5.0	V
$I_C$	Collector Current-Continuous	-1	A
$I_{CM}$	Collector Current-Peak	-1.5	A
$P_C$	Collector Power Dissipation	20	W
$T_J$	Junction Temperature	150	°C
$T_{stg}$	Storage Temperature Range	-55~150	°C



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**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> = -100 μ A; I <sub>B</sub> = 0	-150			V
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = -10 μ A; I <sub>C</sub> = 0	-5			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -500mA; I <sub>B</sub> = -50mA			-2.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = -500mA; I <sub>B</sub> = -50mA			-2.0	V
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = -150mA; V <sub>CE</sub> = -10V	65		330	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -500mA; V <sub>CE</sub> = -5V	50			
f <sub>T</sub>	Current-Gain—Bandwidth Product	I <sub>E</sub> = 50mA; V <sub>CE</sub> = -10V		200		MHz
C <sub>OB</sub>	Output Capacitance	I <sub>E</sub> = 0; V <sub>CB</sub> = -10V; f= 1.0MHz		30		pF

**◆ h<sub>FE-1</sub> Classifications**

P	Q	R	S
65-110	90-155	130-220	185-330

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