

# **ISC Silicon NPN Power Transistor**

# 2SC6011

#### **DESCRIPTION**

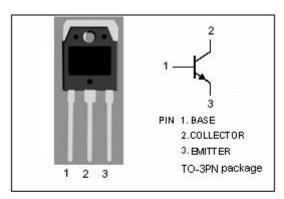
- · High Collector-Emitter Breakdown Voltage-
- : V<sub>(BR)CEO</sub>= 200V(Min)
- · Good Linearity of hFE
- Complement to Type 2SA2151
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

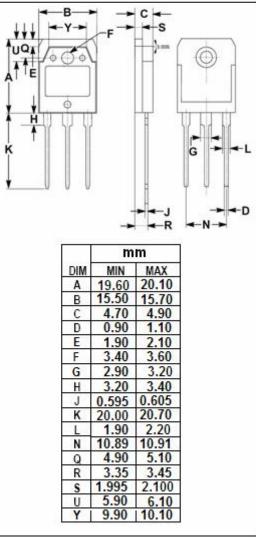


• Designed for audio and general purpose applications

# ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	200	V
$V_{\sf CEO}$	Collector-Emitter Voltage	200	٧
$V_{EBO}$	Emitter-Base Voltage	6	V
lc	Collector Current-Continuous	15	А
I <sub>B</sub>	Base Current-Continuous	4	А
Pc	Collector Power Dissipation @ T <sub>C</sub> =25℃	160	W
Тл	Junction Temperature 150		$^{\circ}$
T <sub>stg</sub>	T <sub>stg</sub> Storage Temperature Range		$^{\circ}$







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#### **ELECTRICAL CHARACTERISTICS**

T<sub>C</sub>=25℃ unless otherwise specified

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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> = 5.0A; I <sub>B</sub> = 0.5A			0.5	V		
Ісво	Collector Cutoff Current	V <sub>CB</sub> = 200V; 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			
Сов	Output Capacitance	I <sub>E</sub> = 0; V <sub>CB</sub> = 10V; f <sub>test</sub> = 1.0MHz		270		pF		
f <sub>T</sub>	Current-Gain—Bandwidth Product	I <sub>E</sub> = -0.5A; V <sub>CE</sub> = 12V		20		MHz		

### ♦ h<sub>FE</sub> Classifications

0	Р	Y
50-100	70-140	90-180

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