

isc Silicon NPN Power Transistor

2SC6011

DESCRIPTION

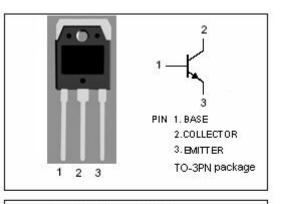
- High Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 200V(Min)
- Good Linearity of hFE
- Complement to Type 2SA2151
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

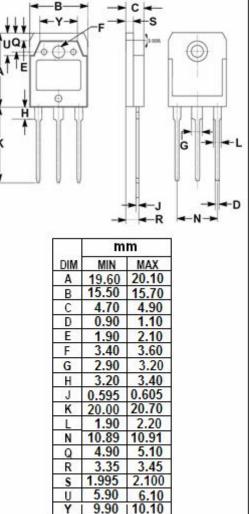
APPLICATIONS

· Designed for audio and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)					
PARAMETER	VALUE	UNIT			
Collector-Base Voltage	200	V			
Collector-Emitter Voltage	200	V			
Emitter-Base Voltage	6	V			
Collector Current-Continuous	15	А			
Base Current-Continuous	4	А			
Collector Power Dissipation @ T _C =25°C	160	W			
T _J Junction Temperature		°C			
T _{stg} Storage Temperature Range		Ĉ			
	PARAMETER Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current-Continuous Base Current-Continuous Collector Power Dissipation @ Tc=25°C Junction Temperature	PARAMETERVALUECollector-Base Voltage200Collector-Emitter Voltage200Emitter-Base Voltage6Collector Current-Continuous15Base Current-Continuous4Collector Power Dissipation @ Tc=25°C160Junction Temperature150			

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)





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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _c = 50mA; I _B = 0	200			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5.0A; I _B = 0.5A			0.5	V
Ісво	Collector Cutoff Current	V _{CB} = 200V; I _E = 0			10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			10	μA
h _{FE}	DC Current Gain	I _C = 3A; V _{CE} = 4V	50		180	
Сов	Output Capacitance	I_E = 0; V_{CB} = 10V; f_{test} = 1.0MHz		270		pF
f _T	Current-Gain—Bandwidth Product	I _E = -0.5A; V _{CE} = 12V		20		MHz

h_{FE} Classifications

0	Р	Y
50-100	70-140	90-180

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