

isc Silicon NPN Power Transistor

2N4111

DESCRIPTION

- Excellent Safe Operating Area
- Low Collector-Emitter Saturation Voltage
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

APPLICATIONS

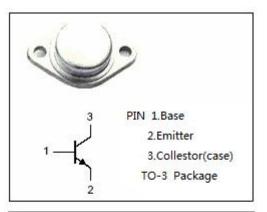
Designed for general-purpose switching and amplifier applications

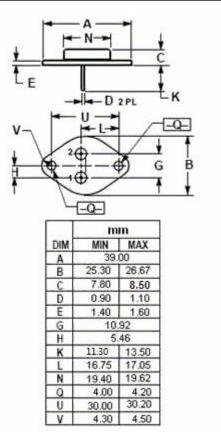
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{сво}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	8	V
lc	Collector Current-Continuous	5	A
Pc	Collector Power Dissipation@Tc=25°C	30	W
TJ	Operating Temperature Range	-65~+165	°C
T _{stg}	Storage Junction Temperature Range	-65~+165	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	4.67	°C/W







isc Silicon NPN Power Transistors

2N4111

ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
Vceo(sus)	Collector-Emitter Sustaining Voltage	I _C =30mA ; I _B =0	60		V
I _{CEO}	Collector Cutoff Current	V _{CE} = 60V; I _B =0		0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 8.0V; I _C =0		1	mA
hfe	DC Current Gain	Ic= 2A ; Vc= 5V	40	120	
f _T	Current Gain-Bandwidth Product	I _C = 0.5A ; V _{CE} = 10V;f=1.0MHz	50		MHz

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications. ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.