



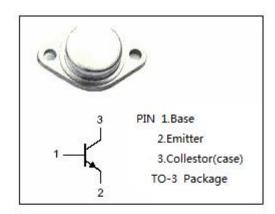
isc Silicon NPN Power Transistor

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

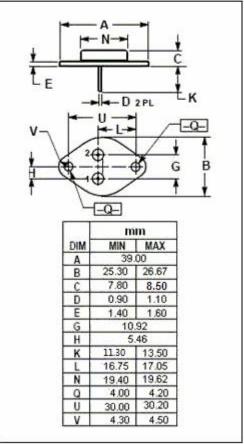


ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage 60		V
V _{EBO}	Emitter-Base Voltage	8	V
Ic	Collector Current-Continuous	5	А
Pc	Collector Power Dissipation@T _C =25℃	30	W
T _J	Operating Temperature Range	Range -65~+165	
T _{stg}	Storage Junction Temperature Range	-65~+165	$^{\circ}$

THERMAL CHARACTERISTICS

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





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2N4112

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(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
h _{FE}	DC Current Gain	Ic= 2A; Vc= 5V	100	200	
f _⊤	Current Gain-Bandwidth Product	I _C = 0.5A ; V _{CE} = 10V;f=1.0MHz	60		MHz



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