

isc Silicon NPN Power Transistor

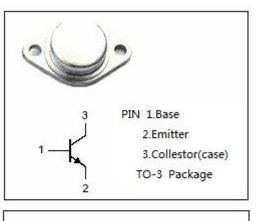
2N3239

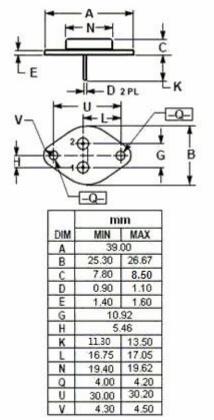
DESCRIPTION

- · 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 high power switch and amplifier applications.





ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	80	V
V _{CEO}	Collector-Emitter Voltage	80	V
V _{EBO}	Emitter-Base Voltage	-Base Voltage 7	
Ic	Collector Current-Continuous	15	A
Pc	Collector Power Dissipation@Tc=25°C	150	W
TJ	Junction Temperature	175	°C
T _{stg}	Storage Temperature	-65~175	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.17	°C/W

isc website: www.iscsemi.com



isc Silicon NPN Power Transistor

2N3239

ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C =30mA; I _B = 0	80		V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 10A; I _B = 1.33A		1	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 10A; V _{CE} = 10V		2	V
h _{FE}	DC Current Gain	I _C = 10A; V _{CE} = 10V	8.5	25	
fT	Current Gain-Bandwidth Product	I _C = 0.5A; V _{CE} = 4V; f= 1.0MHz	1.0		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.