

WSRSIC010065NNI

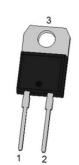
SILICON CARBIDE SCHOTTKY DIODE

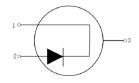
Features

- 10A Silicon Carbide Schottky Diode
- Excellent high temperature stability
- Low forward voltage
- High forward surge capability
- 175°C Operating Junction Temperature
- Reduced temperature dependence
- RoHS Compliant & HF



- Case: TO-220 Isolated
 - --Ceramic Package Provides 2.5KV Isolation
 - --Electrically Isolated Package





Absolute Maximum Ratings (Tc=25°C Unless otherwise specified)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	650	V
Surge Peak Reverse Voltage	V _{RSM}	650	V
DC Blocking Voltage	V _R	650	V
Maximum Average Forward Rectified Current at TC =142°C	lF	10	А
Surge(Non-Repetitive)Forward Current @ T _p =10ms Half Sine Wave T _C =25°C	I _{FSM}	70	А
Power Dissipation T _C =25°C	P _{tot}	81	W
Thermal Resistance(between Junction and Case)	R _θ (J-C)	1.85 (Typ.)	°C/W
Junction and Storage Temperature	TJ T _{STG}	-55~ +175	°C

SILICON CARBIDE SCHOTTKY DIODE

Electronics Characteristics (Tc=25°C Unless otherwise specified)

Parameter	Symbol	Тур.	Max.	Unit
Maximum Instantaneous Forward Voltage @I _F =10A T _J =25°C Maximum Instantaneous Forward Voltage @I _F =6A T _J =25°C Maximum Instantaneous Forward Voltage @I _F =10A T _J =175°C	VF	1.38 1.25 1.80	1.75 / /	V
Total Capacitance @ f=1MHZ T_J =25°C V_R =0V Total Capacitance @ f=1MHZ T_J =25°C V_R =200V Total Capacitance @ f=1MHZ T_J =25°C V_R =400V	С	550 53 48	/	pF
Total Capacitive Charge @ V _R =400V	Qc	28	/	nC
Reverse leakage current @V _R =V _{RWM} T _J =25°C Reverse leakage current @V _R =V _{RWM} T _J =175°C	I _R	1.5 12	40 /	μА

Note: The above typical parameters or typical characteristics are only indicative and do not make specific guarantees. If detailed values are required, additional communication and provision are required.

Typical Characteristics

Fig.1-Forward Characteristics

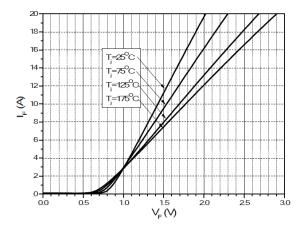


Fig.2-Reverse Characteristics

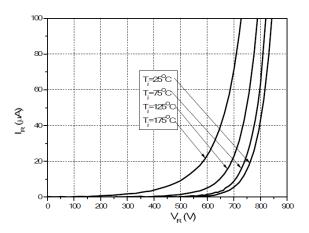


Fig.3-Total Capacitance Charge VS Reverse Voltage

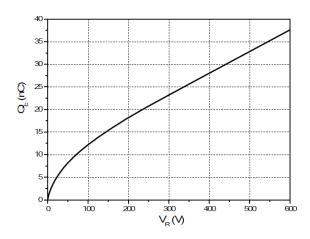
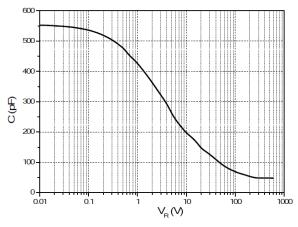
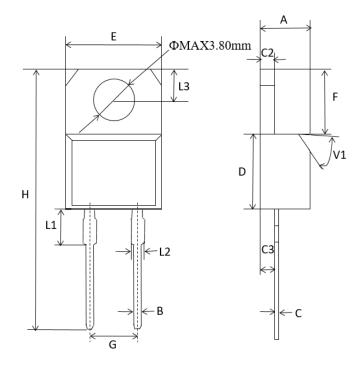


Fig.4-Capacitance VS Reverse Voltage



Outline Drawing

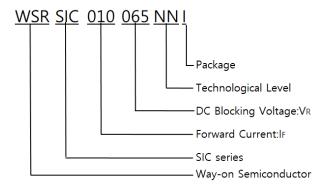
CVMADOL	MM		
SYMBOL	MIN	NOM	MAX
А	4.1	1	4.7
В	0.6	-	0.95
С	0.4	-	0.75
C2	1.1	1	1.45
C3	2.3	1	2.75
D	8.5	-	9.8
E	9.65	1	10.65
F	6.1	-	7.2
G	-	5.08	-
Н	27.5	-	29.9
L1	-	3.75	-
L2	1.1	1	1.7
L3	2.5	1	2.95
V1	_	45°	



Marking Code

Part Number	WSRSIC010065NNI
Marking Code	W010065NNI

Part Number System



Package Information

Quantity per tube: 50pcs

Contact Information

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WAYON website: http://www.way-on.com

For additional information, please contact your local Sales Representative.

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The product specification aims to provide users with a reference regarding various product parameters, performance, and usage. It presents certain aspects of the product's performance in graphical form and is intended solely for users to select product and make product comparisons, enabling users to better understand and evaluate the characteristics and advantages of the product. It does not constitute any commitment, warranty, or guarantee.

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