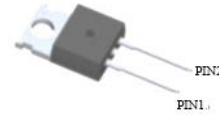


Features

- 15A Silicon Carbide Schottky Diode
- Excellent high temperature stability
- Low forward voltage
- High forward surge capability
- 175°C Operating Junction Temperature
- Reduced temperature dependence



Mechanical Data

- Case: TO-220-2L

Absolute Maximum Ratings (T_c=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 T _c =149°C	I _F	15	A
Surge(Non-Repetitive)Forward Current @ T _p =10ms Half Sine Wave T _c =25°C	I _{FSM}	95	A
Power Dissipation T _c =25°C	P _{tot}	151	W
Thermal Resistance(between Junction and Case)	R _{θ(J-C)}	0.99 (Typ.)	°C/W
Junction and Storage Temperature	T _J T _{STG}	-40 ~ +175	°C

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

Parameter	Symbol	Typ.	Max.	Unit
Maximum Instantaneous Forward Voltage @I _F =15A T _J =25°C	V _F	1.38	1.75	V
Maximum Instantaneous Forward Voltage @I _F =15A T _J =175°C		1.8	/	

Total Capacitance @ f=1MHz T _J =25°C V _R =0V		607		
Total Capacitance @ f=1MHz T _J =25°C V _R =200V	C	58	/	pF
Total Capacitance @ f=1MHz T _J =25°C V _R =400V		44		
Total Capacitive Charge @ V _R =400V	Q _C	31	/	nC
Reverse leakage current @ V _R =V _{RWM} T _J =25°C		5	100	
Reverse leakage current @ V _R =V _{RWM} T _J =175°C	I _R	25	/	μA

Typical Characteristics

Fig.1-Forward Characteristics

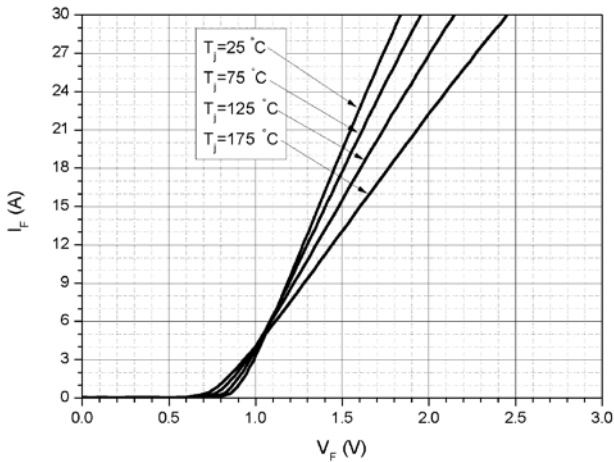


Fig.2-Reverse Characteristics

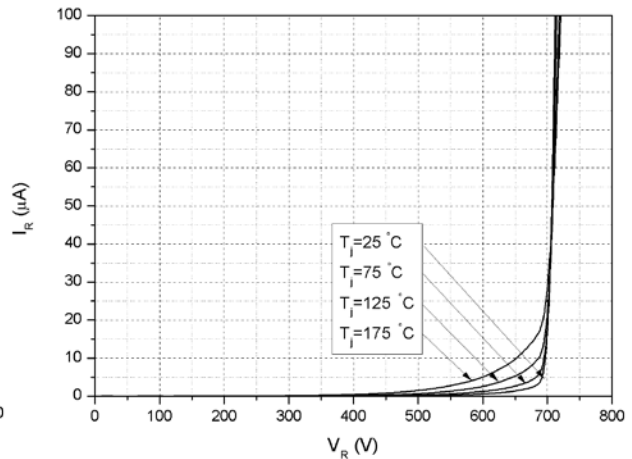


Fig.3-Total Capacitance Charge VS Reverse Voltage

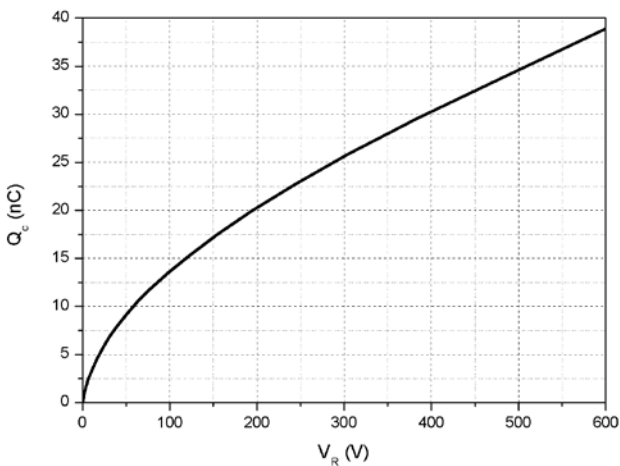
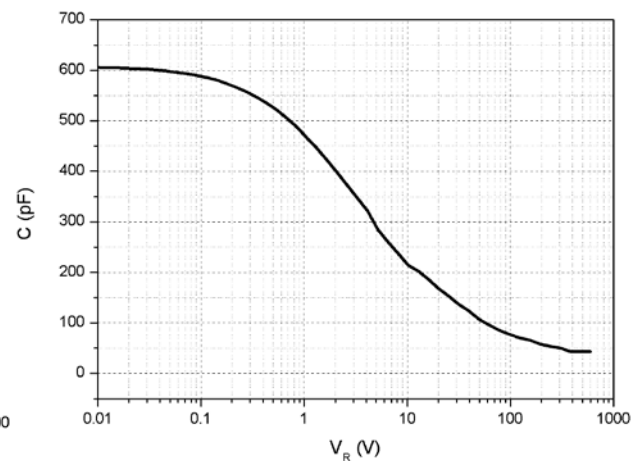
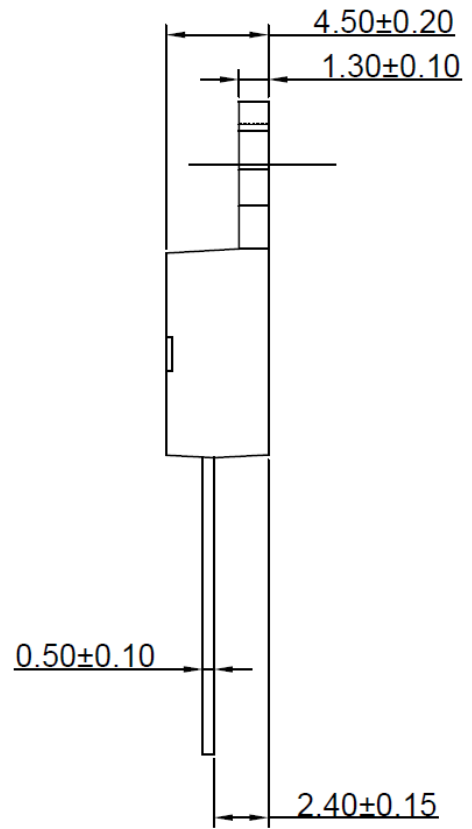
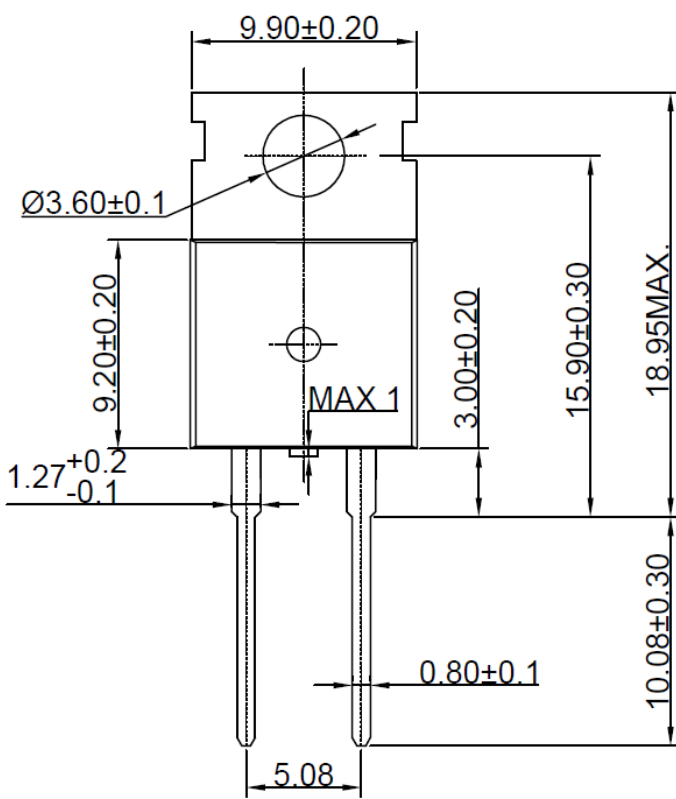


Fig.4-Capacitance VS Reverse Voltage



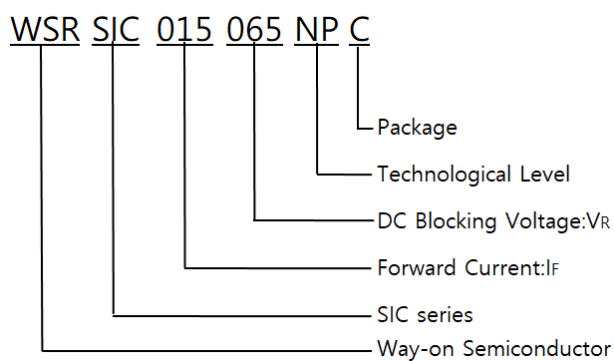
Outline Drawing



Marking Code

Part Number	WSRSIC015065NPC
Marking Code	W015065NPC

Part Number System



Package Information

Quantity per tube: 50pcs

Contact Information

No.1001, Shiwan(7) Road, Pudong District, Shanghai, P.R.China.201207

Tel: 021-68969993 Fax: 86-21-50757680 Email: market@way-on.com

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

For additional information, please contact your local Sales Representative.

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The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.*