

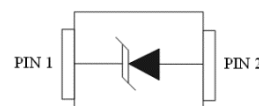
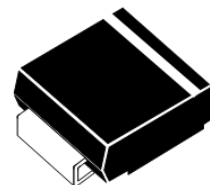


WSRSIC010120NPCC

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



Mechanical Data

- Case: SMC (JEDEC DO-214AB)

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	1200	V
Surge Peak Reverse Voltage	V _{RSM}	1200	V
DC Blocking Voltage	V _R	1200	V
Maximum Average Forward Rectified Current	I _F	10	A
Surge(Non-Repetitive)Forward Current @ T _p =10ms Half Sine Wave T _c =25°C	I _{FSM}	95	A
Junction and Storage Temperature	T _J T _{STG}	-55 ~ +175	°C

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

Parameter	Symbol	Typ.	Max.	Unit
Maximum Instantaneous Forward Voltage @ I _F =10A T _J =25°C	V _F	1.4	1.8	V
Maximum Instantaneous Forward Voltage @ I _F =10A T _J =175°C		2	/	

Total Capacitance @ $f=1\text{MHz}$ $T_J=25^\circ\text{C}$ $V_R=0\text{V}$		610		
Total Capacitance @ $f=1\text{MHz}$ $T_J=25^\circ\text{C}$ $V_R=400\text{V}$	C	46	/	pF
Total Capacitance @ $f=1\text{MHz}$ $T_J=25^\circ\text{C}$ $V_R=800\text{V}$		36		
Total Capacitive Charge @ $V_R=800\text{V}$	Q_C	50	/	nC
Reverse leakage current @ $V_R=V_{RWM}$ $T_J=25^\circ\text{C}$	I_R	10	100	μA
Reverse leakage current @ $V_R=V_{RWM}$ $T_J=175^\circ\text{C}$		20	/	

Typical Characteristics

Fig.1-Forward Characteristics

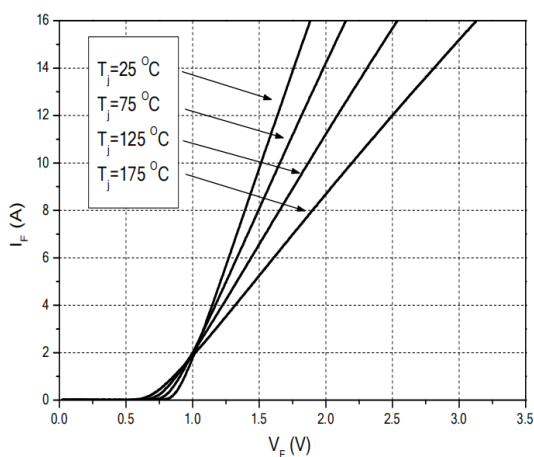


Fig.2-Reverse Characteristics

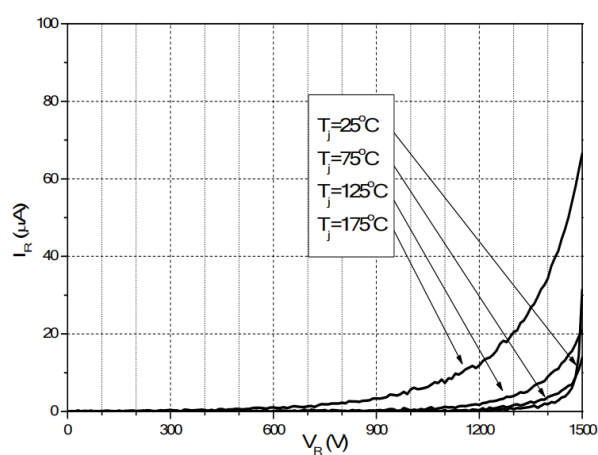


Fig.3-Total Capacitance Charge VS Reverse Voltage

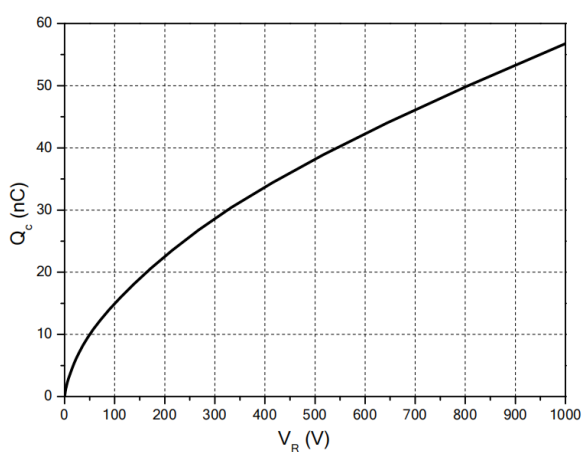
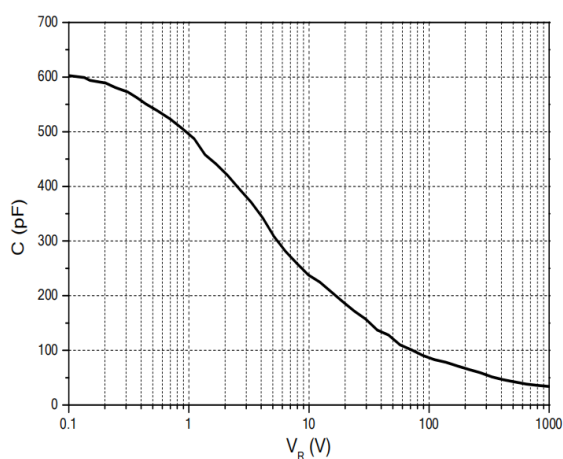
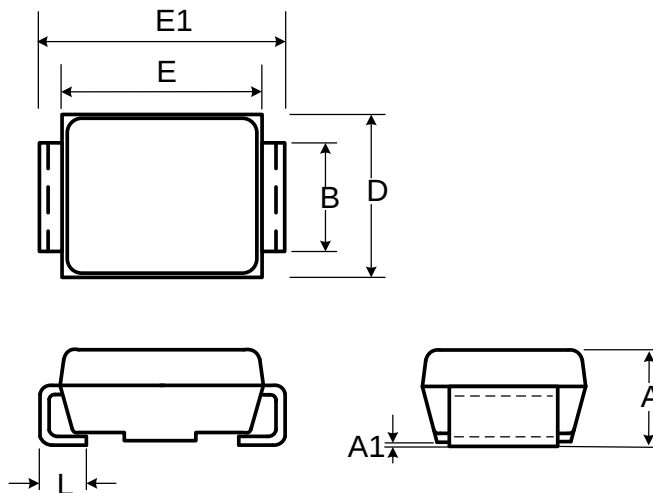


Fig.4-Capacitance VS Reverse Voltage

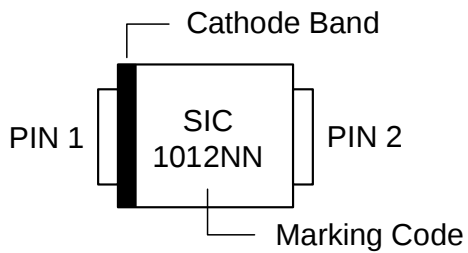


Outline Drawing

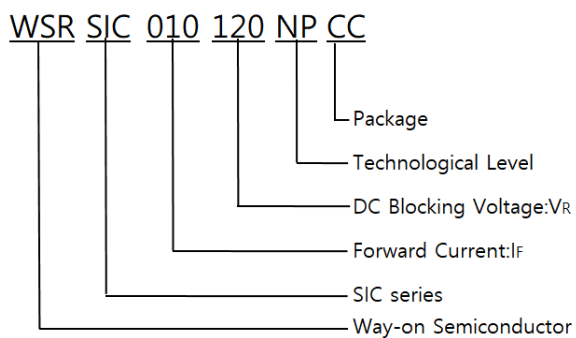
SYMBOL	MM	
	MIN	MAX
A	2.06	2.70
A1	-	0.30
B	2.90	3.20
E	6.60	7.40
E1	7.75	8.13
D	5.59	6.22
L	0.76	1.52



Marking Code



Part Number System



Package Information

3000pcs/ Reel

Contact Information

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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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Specifications are subject to change without notice.
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.