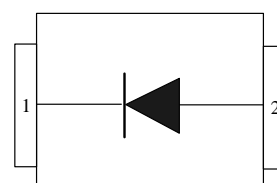
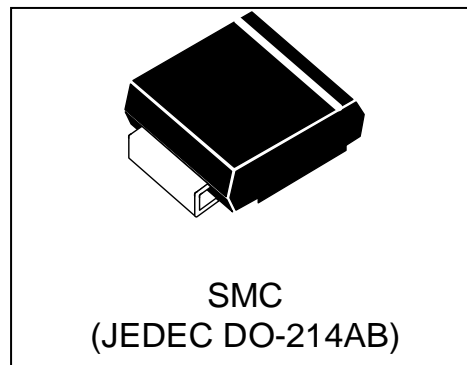


Features

- 3A Schottky barrier diode
- Schottky barrier rectifier
- Guarding protection
- Low forward voltage
- Reverse energy tested
- High current capability
- Extremely low thermal resistance
- RoHS Compliant & HF
- Device meets MSL1 requirement



Mechanical Data

- Case: SMC(JEDEC DO-214AB),molded plastic body
- Mounting position: any
- Polarity: Color band denotes cathode end

Absolute Maximum Ratings and Electronics characteristics

Ratings@25°C ambient temperature unless otherwise specified

Parameter	Symbol	WSR4003C	WSR6003C	WSR10003C	WSR15003C	WSR20003C	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	40	60	100	150	200	V
Maximum RMS voltage	V _{RMS}	28	42	70	105	140	V
Maximum DC blocking voltage	V _{DC}	40	60	100	150	200	V
Maximum average forward rectified current	I _{F(AV)}	3.0					A
Peak forward surge current 8.3ms single half-sine-wave	I _{FSM}	70					A
Maximum instantaneous forward voltage at IF=3.0A	V _F	0.55	0.7	0.85	0.95		V
Maximum DC reverse current (T _a = 25°C) At rated DC blocking voltage (T _a =100°C)	I _R	0.5 20		0.1 10			mA
Typical thermal resistance(junction to ambient)	R _{θJA}	50					°C/W
Operating temperature range	T _J	-55 ~ +125					°C
Storage temperature range	T _{STG}	-55 ~ +150					°C

Typical characteristics ($T_a=25^\circ\text{C}$, unless otherwise noted)

Fig. 1 - PEAK FORWARD SURGE CURRENT

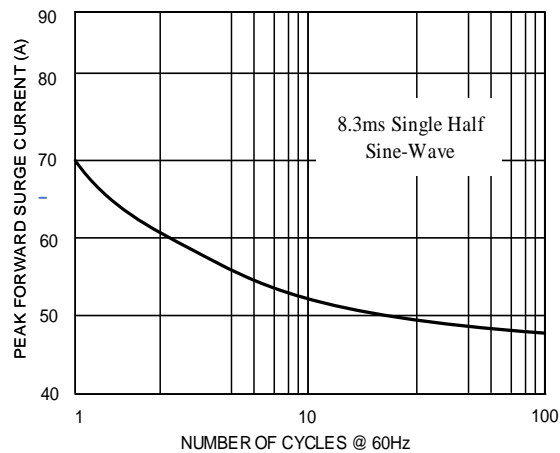


Fig. 2 - FORWARD CURRENT DERATING CURVE

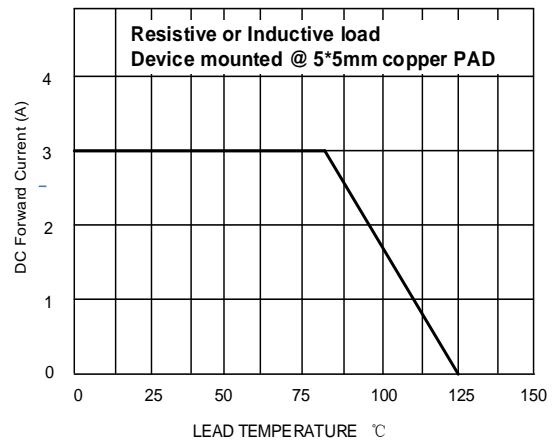


Fig.3: Typical Forward Characteristic

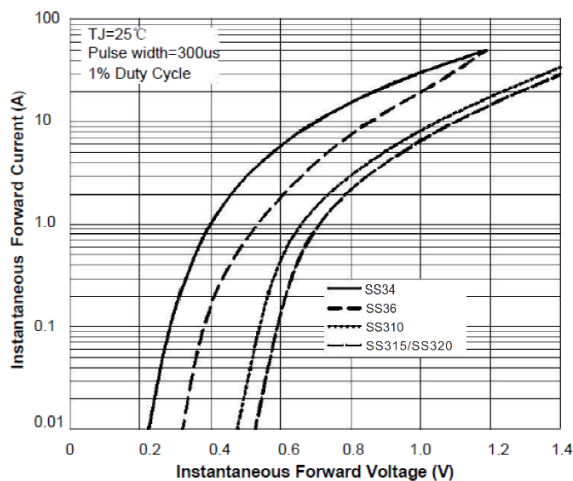
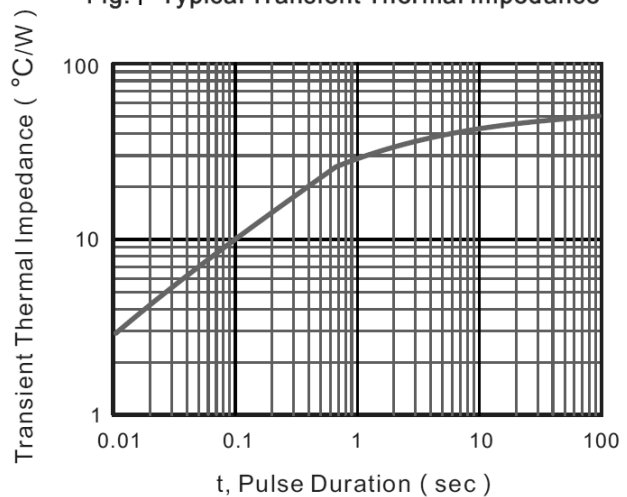


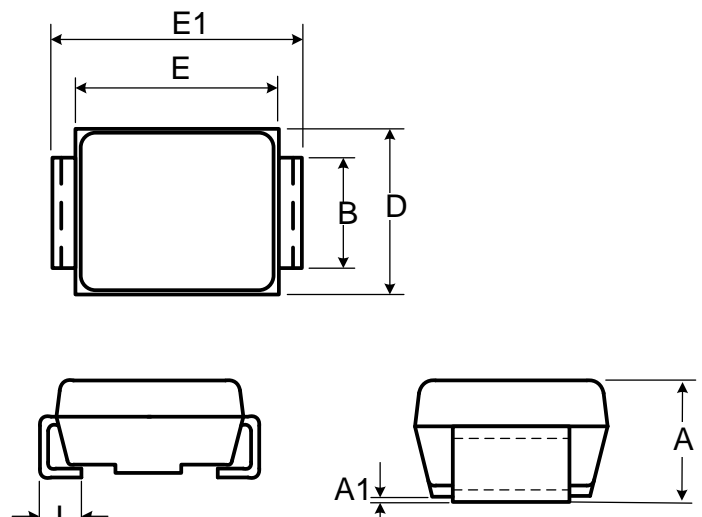
Fig.4- Typical Transient Thermal Impedance



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.

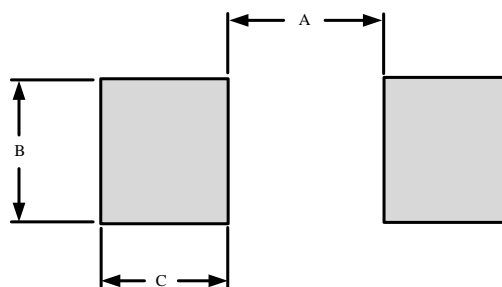
Outline Drawing

Ref. (mm)	Millimeters	
	Min.	Max.
A	1.990	2.700
A1	-	0.300
B	2.750	3.270
E	6.500	7.110
E1	7.600	8.130
D	5.590	6.220
L	0.760	1.600



Recommended Solder Pad Layout

DIM(mm)	MILLIMETERS
A	4.20
B	3.30
C	2.40



Marking Code

Part Number	WSR4003C	WSR6003C	WSR10003C	WSR15003C	WSR20003C
Marking Code	SS34	SS36	SS310	SS315	SS320

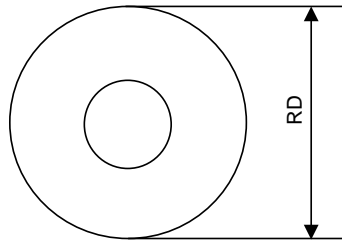
Package Information

Tape & Reel: 3000 pcs.

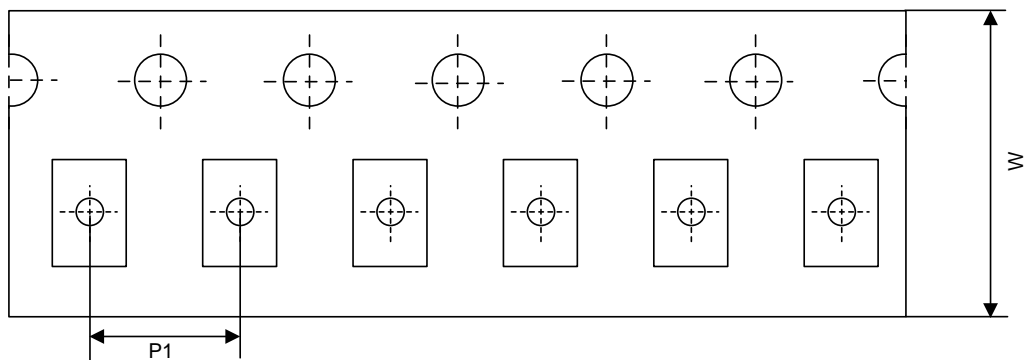
Tape and Reel Information

RD	Reel Dimensions	13 inch
W	Overall width of the carrier tape	16 mm
P1	Pitch between successive cavity centers	8 mm

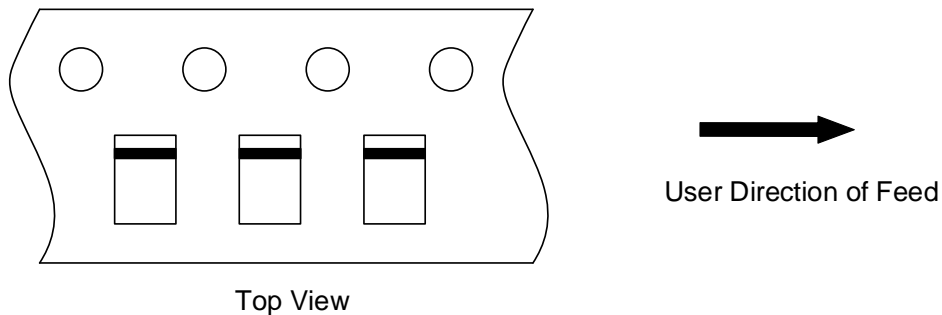
Reel Dimensions Schematic diagram



Tape Dimensions Schematic diagram



Quadrant Assignments for PIN1 Orientation in tape



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For additional information, please contact your local Sales Representative.

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Product Specification Statement

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.

The product parameters described in the product specification are numerical values, characteristics, and functions obtained through actual testing or theoretical calculations of the product in an independent or ideal state. Due to the complexity of product applications and variations in test conditions and equipment, there may be slight fluctuations in parameter test values. WAYON shall not guarantee that the actual performance of the product when installed in the customer's system or equipment will be entirely consistent with the product specification, especially concerning dynamic parameters. It is recommended that users consult with professionals for product selection and system design. Users should also thoroughly validate and assess whether the actual parameters and performance when installed in their respective systems or equipment meet their requirements or expectations. Additionally, users should exercise caution in verifying product compatibility issues, and WAYON assumes no responsibility for the application of the product.

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Users are advised to pay attention to the parameter limit values specified in the product specification and maintain a certain margin in design or application to ensure that the product does not exceed the parameter limit values defined in the product specification. This precaution should be taken to avoid exceeding one or more of the limit values, which may result in permanent irreversible damage to the product, ultimately affecting the quality and reliability of the system or equipment.

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