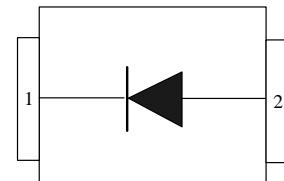
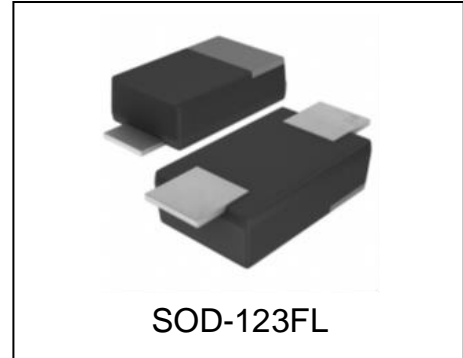


Features

- 1A 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: SOD-123FL, 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	WSR4010D1F	WSR6010D1F	WSR10010D1F	WSR15010D1F	WSR20010D1F	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	$I_{F(AV)}$	1.0					A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	30					A
Maximum instantaneous forward voltage at $I_F=1.0A$	V_F	0.55	0.7	0.85	0.95		V
Maximum DC reverse current ($T_a=25^\circ C$) At rated DC blocking voltage ($T_a=100^\circ C$)	I_R	0.5 10		0.1 5			mA
Typical thermal resistance(junction to ambient)	$R_{\theta JA}$	70					$^\circ C/W$
Operating temperature range	T_J	-55 ~ +125	-55 ~ +150				$^\circ C$
Storage temperature range	T_{STG}	-55 ~ +150					$^\circ C$

Typical characteristics (Ta=25°C, unless otherwise noted)

Fig. 1 - PEAK FORWARD SURGE CURRENT

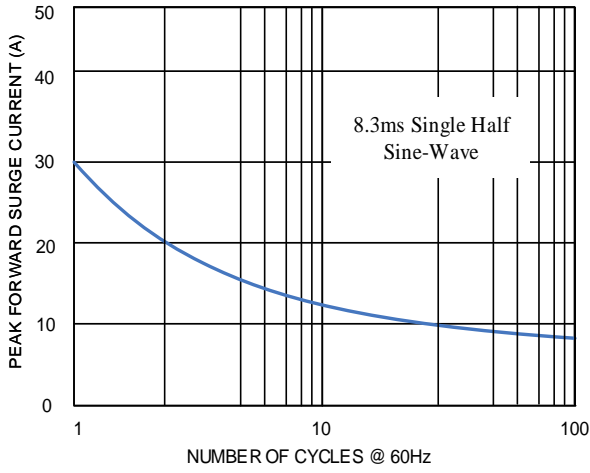


Fig. 2 - FORWARD CURRENT DERATING CURVE

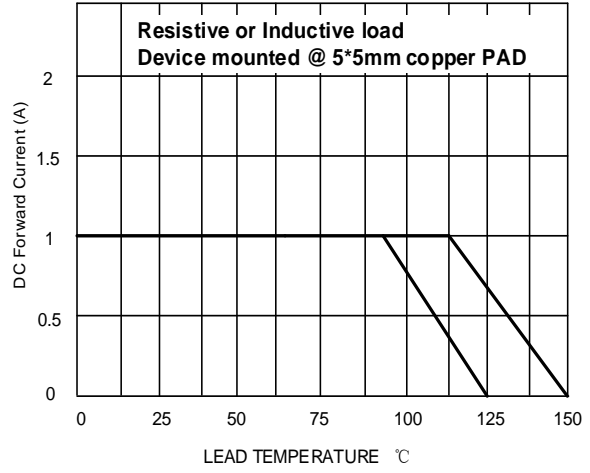


FIG3: Forward Voltage

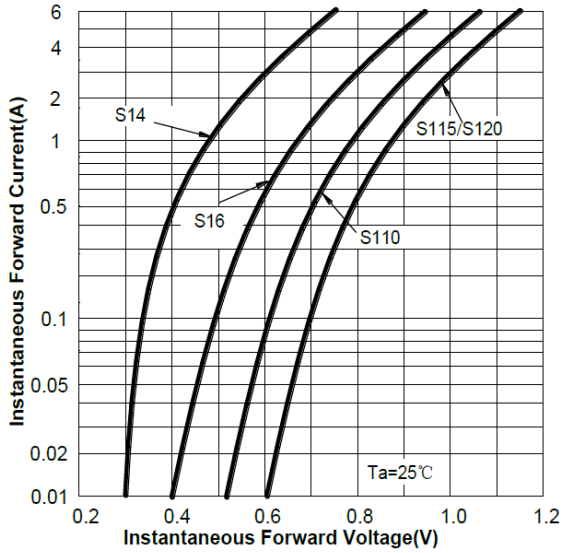
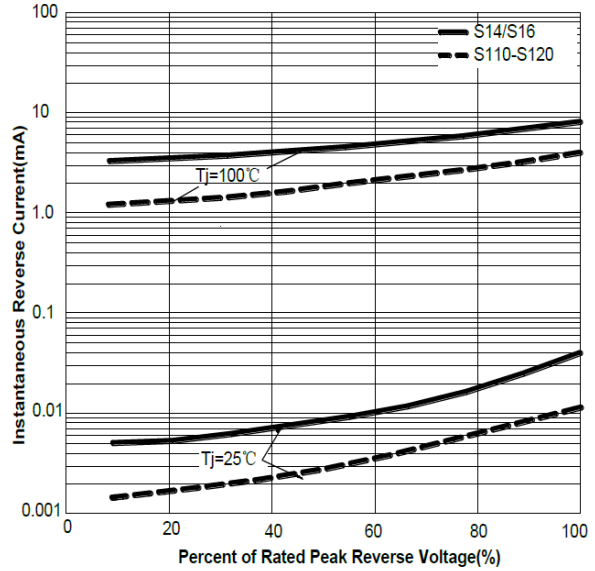


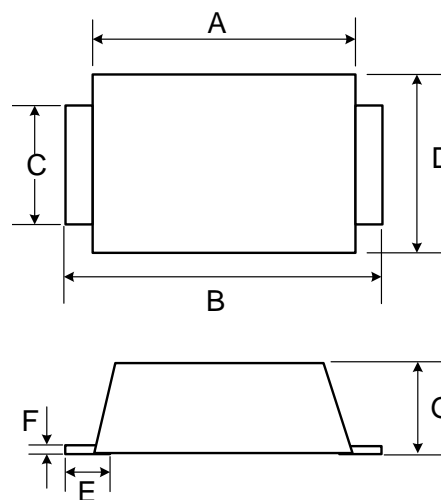
FIG4: Typical Reverse Characteristics



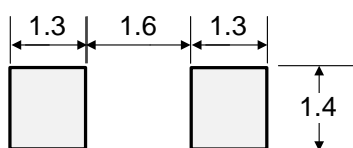
Note: The above typical parameters or typical characteristics are only indicative and do not make specific guarantees. If detailed values are required, additional communication and provision are required.

Outline Drawing

Ref. (mm)	Millimeters	
	Min.	Max.
A	2.50	2.95
B	3.40	3.95
C	0.70	1.10
D	1.50	1.95
E	0.35	0.95
F	0.05	0.26
G	0.90	1.40



Recommended Solder Pad Layout



Dimensions in mm

Marking Code

Part Number	WSR4010D1F	WSR6010D1F	WSR10010D1F	WSR15010D1F	WSR20010D1F
Marking Code	S14	S16	S110	S115	S120

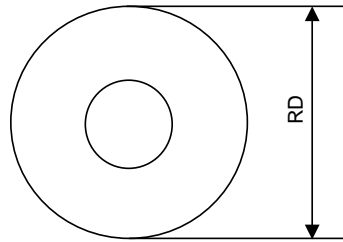
Package Information

Tape & Reel: 3000 pcs.

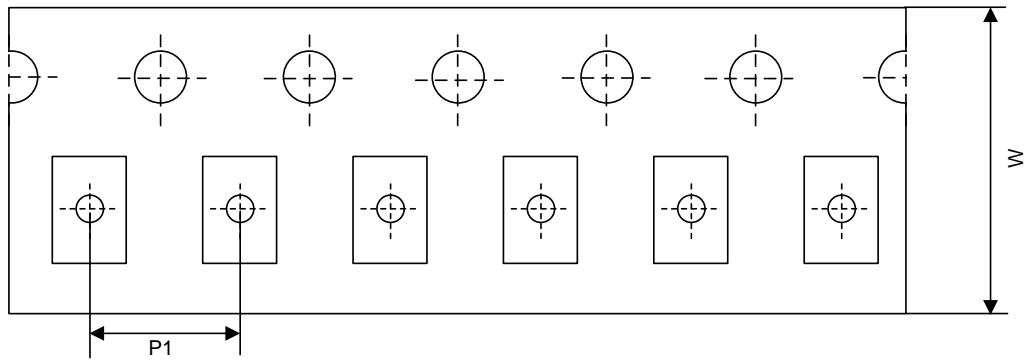
Tape and Reel Information

RD	Reel Dimensions	7 inch
W	Overall width of the carrier tape	8 mm
P1	Pitch between successive cavity centers	4 mm

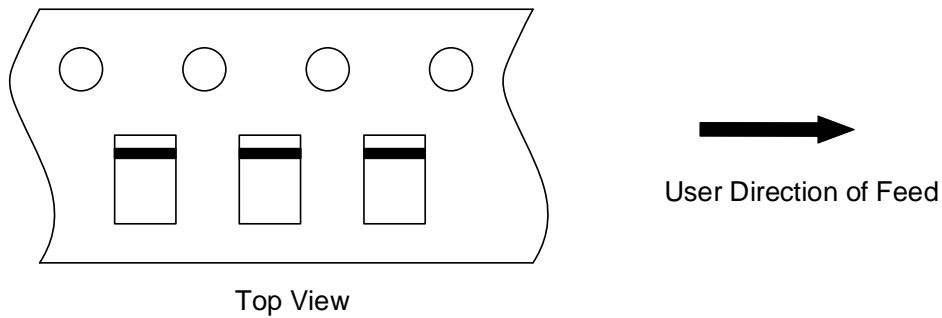
Reel Dimensions Schematic diagram



Tape Dimensions Schematic diagram



Quadrant Assignments for PIN1 Orientation in tape



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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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