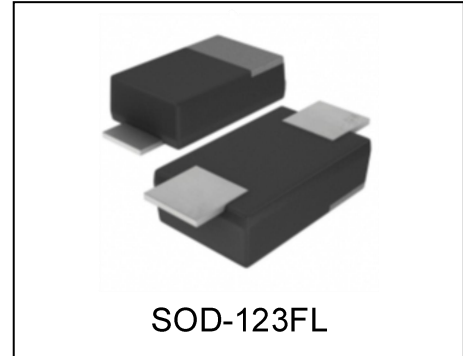


SCHOTTKY BARRIER RECTIFIERS

Features

- 3A Schottky barrier diode
- Schottky barrier rectifier
- Guarding protection
- Low forward voltage
- Reverse energy tested
- High current capability
- Extremely low thermal resistance



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	WSR2030D1F	WSR4030D1F	WSR6030D1F	WSR8030D1F	WSR10030D1F	WSR15030D1F	WSR20030D1F	UNITS	
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	60	80	100	150	200	V	
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	105	140	V	
Maximum DC blocking voltage	V_{DC}	20	40	60	80	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}	65							A	
Maximum instantaneous forward voltage at $I_F=3.0A$	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

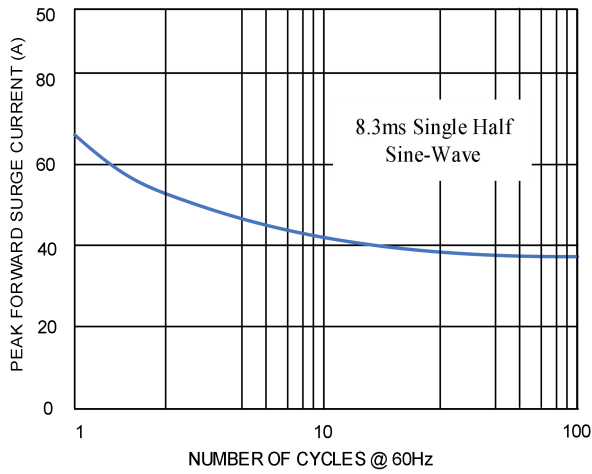


Fig. 2 - FORWARD CURRENT DERATING CURVE

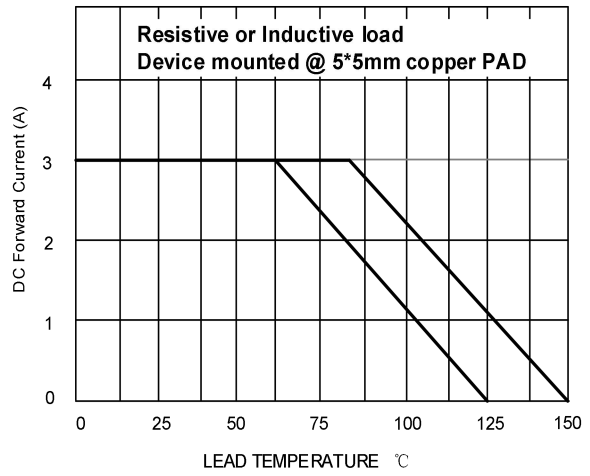


FIG3: Forward Voltage

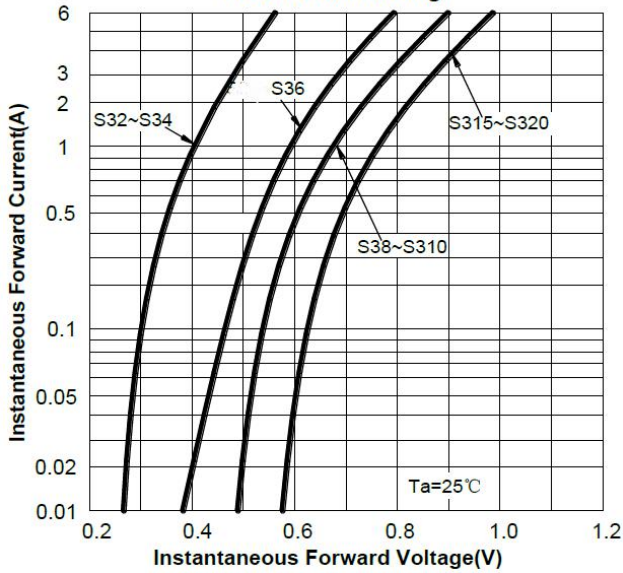
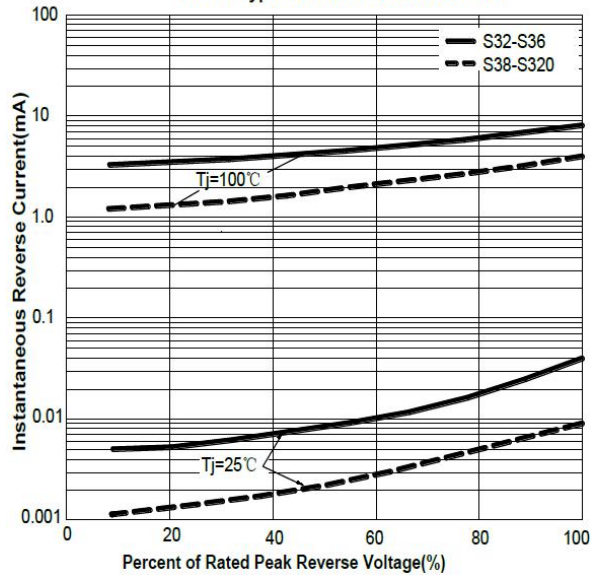
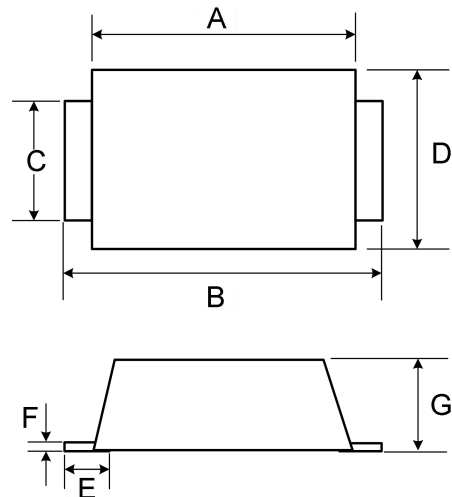


FIG4: Typical Reverse Characteristics

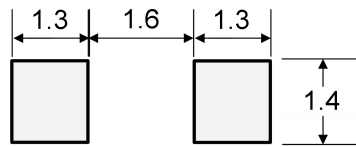


Outline Drawing

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	WSR2030D1F	WSR4030D1F	WSR6030D1F	WSR8030D1F
Marking Code	S32	S34	S36	S38
Part Number	WSR10030D1F	WSR15030D1F	WSR20030D1F	
Marking Code	S310	S315	S320	

Package Information

Tape & Reel: 3000 pcs.

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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*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.*

单击下面可查看定价，库存，交付和生命周期等信息

[>>WAY-ON\(维安\)](#)