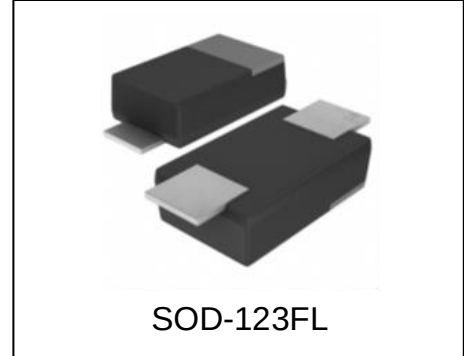


Features

- 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	WSR4030D1F	WSR6030D1F	WSR10030D1F	WSR15030D1F	WSR20030D1F	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}	65					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 10		0.1 5			mA
Typical thermal resistance(junction to ambient)	R _{θJA}	70					°C/W
Operating temperature range	T _J	-55 ~ +125	-55 ~ +150				°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

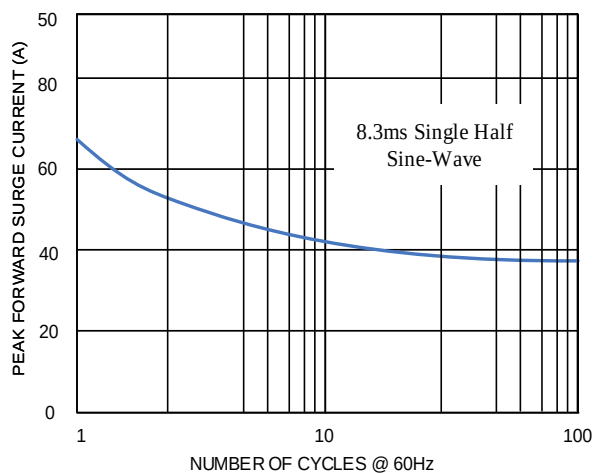
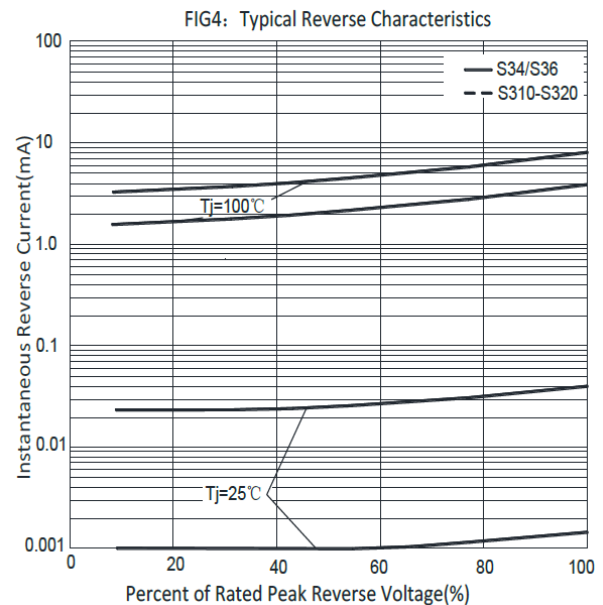
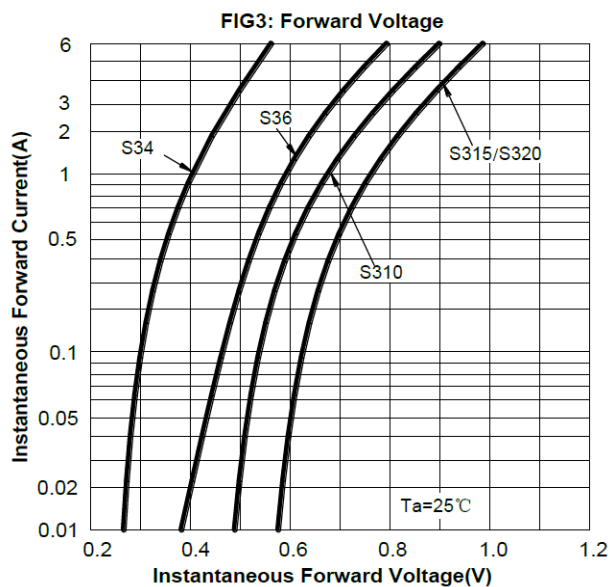
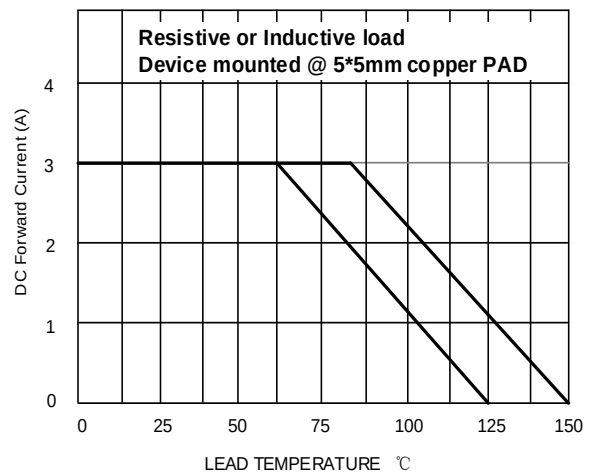
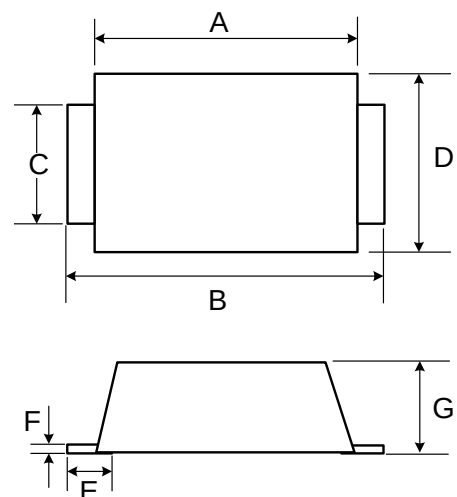


Fig. 2 - FORWARD CURRENT DERATING CURVE

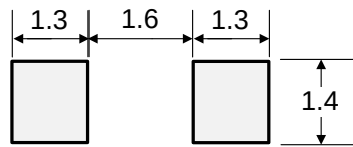


Outline Drawing

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	WSR4030D1F	WSR6030D1F	WSR10030D1F	WSR15030D1F	WSR20030D1F
Marking Code	S34	S36	S310	S315	S320

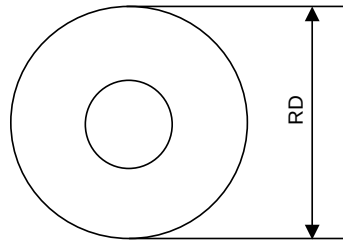
Package Information

Tape & Reel: 3000 pcs.

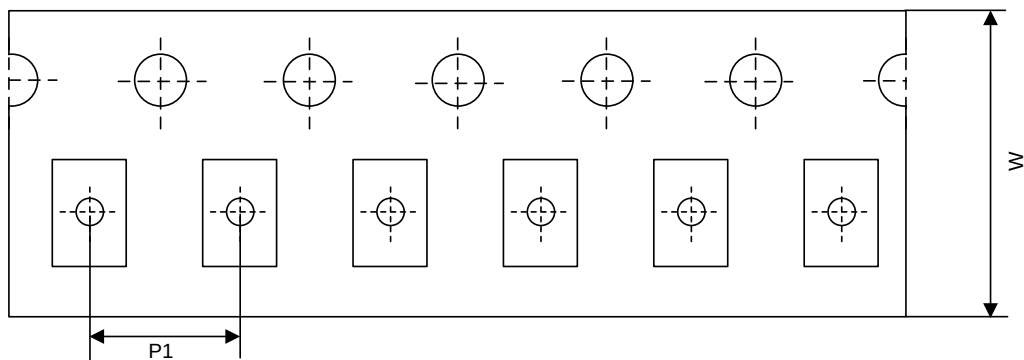
Tape and Reel Information

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

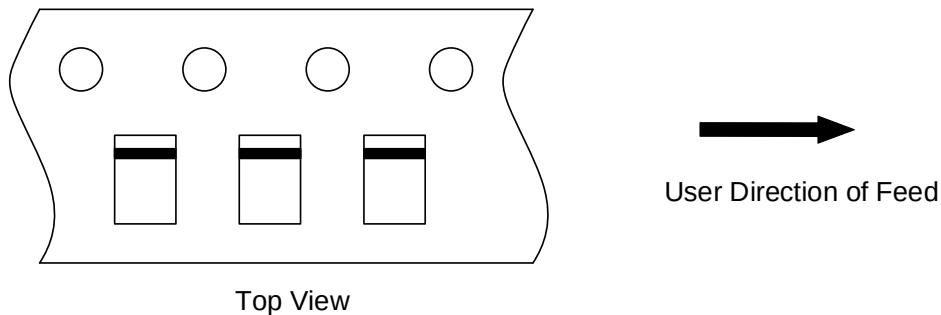
Reel Dimensions Schematic diagram



Tape Dimensions Schematic diagram



Quadrant Assignments for PIN1 Orientation in tape



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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.