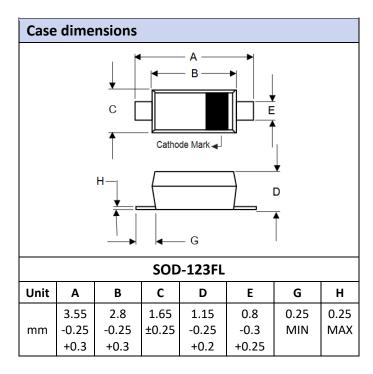


## **SMD General Rectifier Diode**

Primary characteristics				
Parameter	Value	Unit		
Maximum Repetitive Peak Reverse Voltage	50 ~ 1000	V		
Maximum Average Forward Rectified Current	1.0	Α		

## **Features**

- **SOD-123FL** case for easy automatic insertion.
- Pb-free and **RoHS** compliant
- Polarity: color band denotes cathode end
- High surge current capability



Absolute maximum ratings and gener		Symbol	Value					Uni		
			S1AL	S1BL	S1DL	S1GL	S1JL	S1KL	S1ML	t
Maximum repetitive peak rever	se voltage	$V_{RRM}$	50	100	200	400	600	800	1000	
Maximum RMS voltage		V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		$V_{DC}$	50	100	200	400	600	800	1000	
Maximum average forward rectified current 60 Hz half sine wave, resistance load		I <sub>(AV)</sub>	1.0						- A	
Peak forward (non-repetitive) surge current 60 Hz half sine wave, 1 cycle, T <sub>a</sub> =25°C		I <sub>FSM</sub>	30							
Maximum instantaneous forward voltage @1.0A		V <sub>F</sub>	1.0					V		
Maximum DC reverse current T <sub>a</sub> =25°C						10	•			
at rated DC blocking voltage	T <sub>a</sub> =125°C	l <sub>R</sub>				50				μΑ

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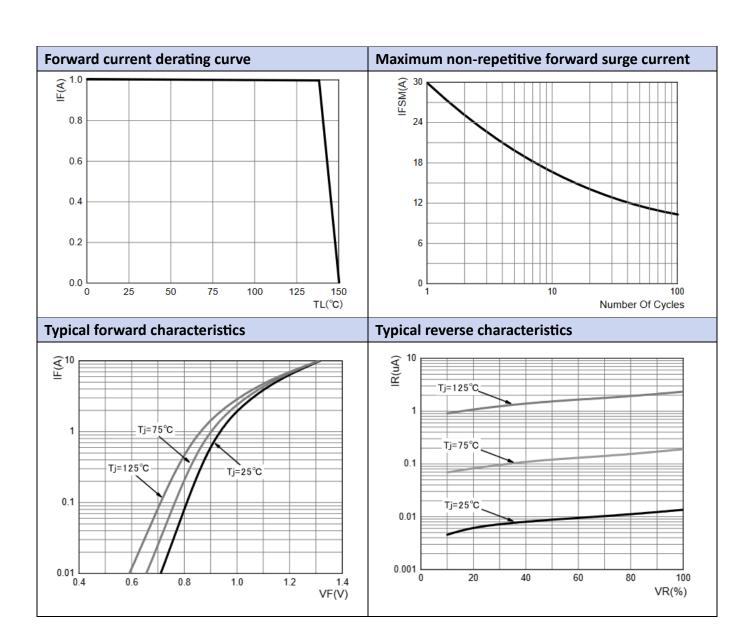


Absolute maximum ratings and general electrical characteristics (T <sub>a</sub> = 25°C)				
Parameter	Symbol	Value	Unit	
Typical junction capacitance 1)	Cj	6	pF	
Typical thermal resistance	R <sub>eJA</sub>	67.5	°C/W	
Typical thermal resistance	R <sub>eJL</sub>	12		
Operating junction and storage temperature range	T <sub>j</sub> , T <sub>STG</sub>	-55 ~ <b>1</b> 50	°C	

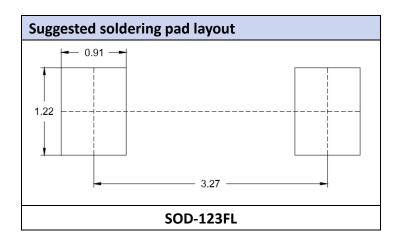
Notes:

1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC

Ratings at 25°C ambient temperature unless otherwise specified







Ordering information			
Part Number	Package	Shipping Quantity	Dimensions
S1AL ~ S1ML	SOD-123FL	3000 pcs / reel 45 000 pcs / small box 180 000 / big box	

## **Disclaimer**

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