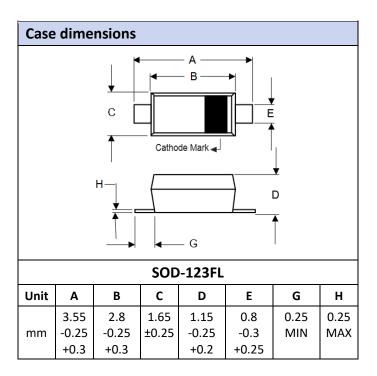


SMD General Rectifier Diode

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
- Glass passivated device
- Low reverse leakage
- High temperature soldering guaranteed:
 250°C/10 seconds/.375" (9.5mm) lead length at 5 lbs (2.3kg) tension
- Molded plastic body over passivated chip
- Polarity: color band denotes cathode end
- Solderable per MIL-STD-750, Method 2026
- Weight: 0.02g/0.0007oz



Absolute maximum ratings and general electrical characteristics (T _a = 25°C)										
Parameter		Symbol	Value					Uni		
			1N4001W	1N4002W	1N4003W	1N4004W	1N4005W	1N4006W	1N4007W	t
Maximum repetitive peak revers	se voltage	V _{RRM}	50	100	200	400	600	800	1000	
Maximum RMS voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		V_{DC}	50	100	200	400	600	800	1000	
Maximum average forward recti @T _A =65°C ¹⁾	fied current	I _(AV)				1.0				
Peak forward surge current 8.3mS single half sine wave supon rated load (JEDEC method), 1	superimposed I _{FSM} 25			Α						
Maximum instantaneous forwar @1.0A	d voltage	V _F				1.1				V
Maximum DC reverse current T _a =25°C		1-	10							
at rated DC blocking voltage	Ta=125°C	l _R	50						μΑ	



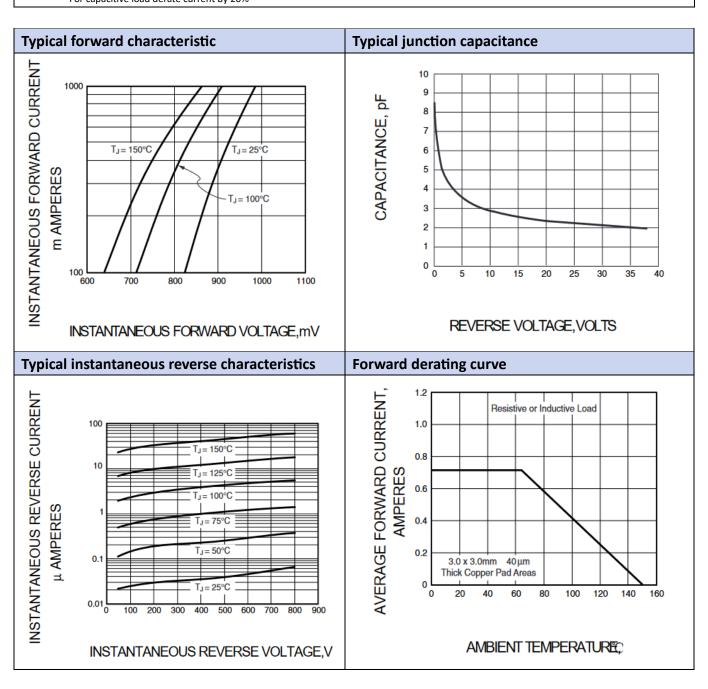
1N4001W - 1N4007W Series

Absolute maximum ratings and general electrical characteristics (T _a = 25°C)				
Parameter	Symbol	Value	Unit	
Typical junction capacitance ²⁾	Cj	4	pF	
Typical thermal resistance ³⁾	R _{eJA}	180	K/W	
Operating junction and storage temperature range	T _j , T _{STG}	-55 ~ 1 50	°C	

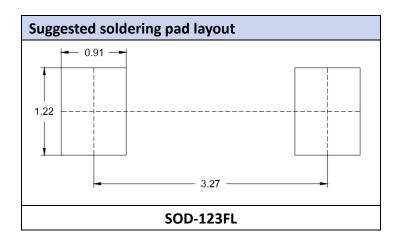
Notes:

- 1) Averaged over any 20ms period
- 2) Measured at 1.0MHz and applied reverse voltage of 4.0VDC
- 3) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, PCB mounted

Ratings at 25°C ambient temperature unless otherwise specified Single phase, half wave, 60Hz, resistive or inductive load For capacitive load derate current by 20%







Ordering information					
Part Number	Package	Shipping Quantity	Dimensions		
1N4001W ~ 1N4007W	SOD-123FL	3000 pcs / reel			

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