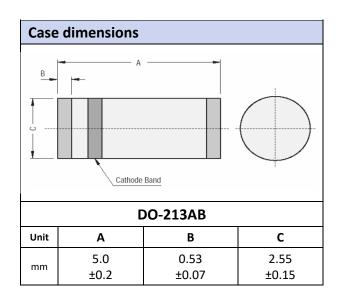


## **SMD General Purpose Rectifier Diode**

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

## **Features**

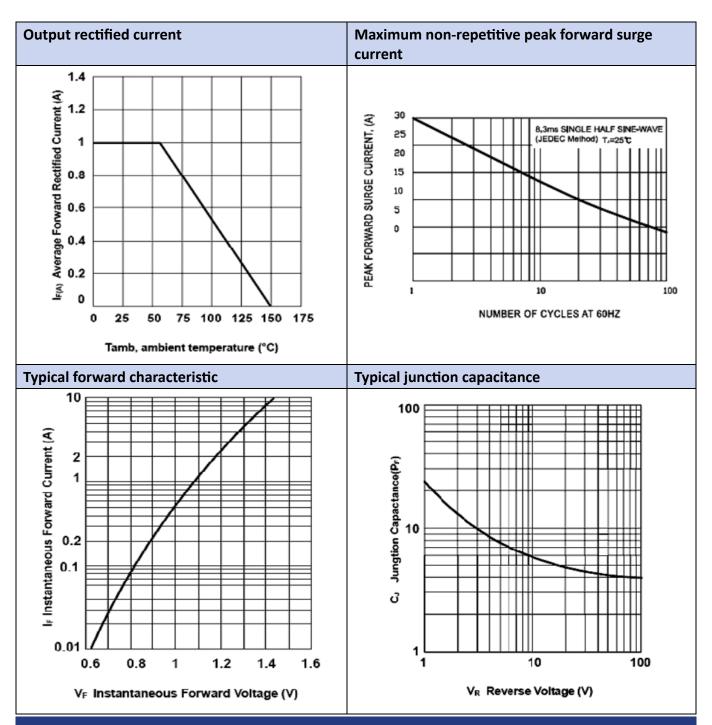
- DO-213AB case for easy automatic insertion
- Pb-free and **RoHS** compliant
- Low reverse leakage
- High temperature soldering guaranteed:
  250°C/10 seconds/.375" (9.5mm) lead length
- Weight: 0.1296 grams
- Solderable per MIL-STD-750 Method 2026



Absolute maximum ratings and general electrical characteristics (T <sub>a</sub> = 25°C)										
Parameter		Symbol	Value						Unit	
			SM4001	SM4002	SM4003	SM4004	SM4005	SM4006	SM4007	Unit
Maximum repetitive peak reverse 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 rectified current 1)		I <sub>(AV)</sub>	1.0							
Peak forward surge current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I <sub>FSM</sub>	30						А	
Maximum instantaneous forward voltage @1.0A		$V_{F}$	1.1						٧	
		5.0								
	OC blocking T <sub>a</sub> =125°C	I <sub>R</sub>	50					mA		

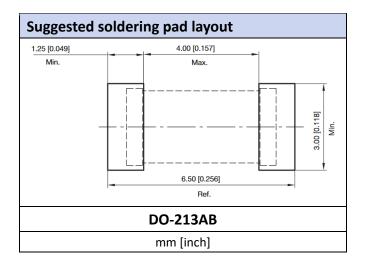


Absolute maximum ratings and general electrical characteristics (T <sub>a</sub> = 25°C)				
Parameter		Value	Unit	
Typical junction capacitance <sup>2)</sup>	CJ	15	рF	
Typical thermal resistance 3)	R <sub>eJA</sub>	75	°C/W	
Operating junction and storage temperature range	T <sub>j</sub> , T <sub>STG</sub>	-55 ~ <b>1</b> 50	°C	



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Ordering information					
Part Number	Package	<b>Shipping Quantity</b>	Dimensions		
SM4001 ~ SM4007	DO-213AB	5 000 pcs / reel			

## **Disclaimer**

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