

## **SMD General Rectifier Diode**

Primary characteristics						
Parameter	Value	Unit				
Maximum Repetitive Peak Reverse Voltage	100 ~ 1000	V				
Maximum Average Forward Rectified Current	1.0	A				

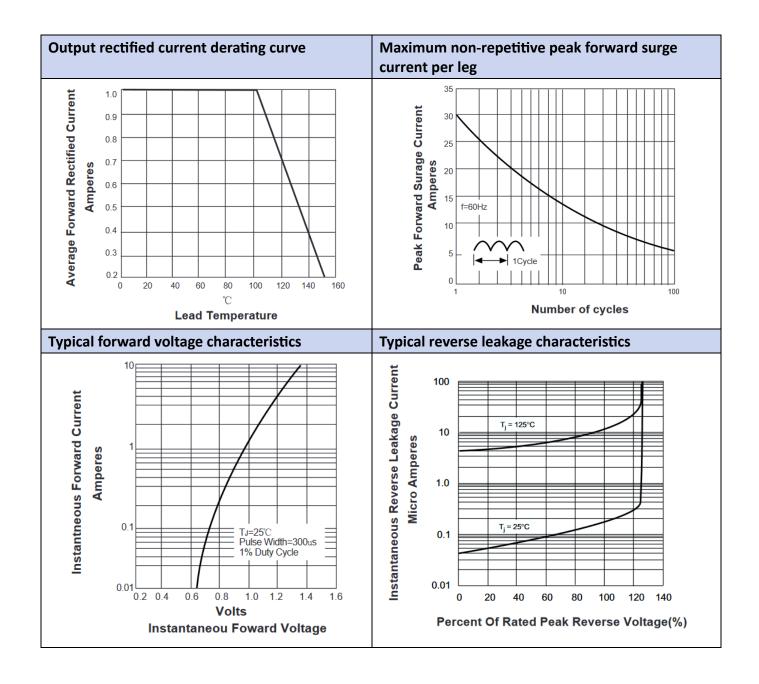
## **Features**

- **DO-41** case for easy automatic insertion.
- Pb-free and **RoHS** compliant
- Solderable per MIL-STD-750, Method 2026
- Weight: 0.25g/0.0088oz

Case dimensions						
Cathode						
DO-41						
	Α	В	С	D		
MIN MAX	4.1 5.2	2.0 2.7	0.5 0.75	25.4 -		
	MIN	D MIN 4.1	Cathode       DO-41       A     B       MIN     4.1     2.0	DO-41       A     B     C       MIN     4.1     2.0     0.5		

Absolute maximum ratings and general electrical characteristics ( $T_a = 25^{\circ}C$ )									
Parameter		Symbol	Value					11	
			1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Unit
Maximum repetitive peak reverse voltage		V <sub>RRM</sub>	100	200	400	600	800	1000	
Maximum RMS voltage		V <sub>RMS</sub>	70	140	280	420	560	700	V
Maximum DC blocking voltage		V <sub>DC</sub>	100	200	400	600	800	1000	
Maximum average forward rect current @T <sub>c</sub> =100°C	ified	I <sub>F(AV)</sub>	v) 1.0						
Peak forward surge current 8.3mS single half sine wave superimposed I <sub>FSM</sub> on rated load (JEDEC method) I			30				A		
Maximum instantaneous forward voltage @1.0A		V <sub>F</sub>	1.1					V	
Maximum DC reverse current at rated DC blocking voltage	T <sub>a</sub> =25°C		10					μA	
	T <sub>a</sub> =125°C	I <sub>R</sub>	500						
Typical junction capacitance @1.0MHz, V <sub>R</sub> =4.0VDC		Cj	21			pF			
Typical thermal resistance		R <sub>eJA</sub>	65		°C/W				
Operating junction and storage temperature range		Tj, T <sub>STG</sub>	тд -55 ~ 150			°C			







Ordering information						
Part Number	Package	Shipping Quantity	Dimensions			
1N4001 ~ 1N4007	DO-41	1000 pcs 5000 pcs				

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