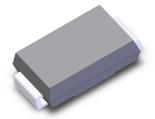


Surface Mount Glass Passivated Fast Recovery Rectifier Reverse Voltage 50~1000V Forward Current 1.0A

Features

- · Glass passivated Fast Recovery rectifiers
- · Ideal for automated placement
- Low forward voltage drop
- High current capability
- Low reverse leakage currrent
- Solder dip 260 °C, 10 s
- Add suffix "E" for Halogen Free





DO-214AC(SMA)

Typical Applications

For use of fast switching rectification in lighting, cellular phone, portable device, power supplies and other consumer applications.

Maximum Ratings (TA = 25 °C unless otherwise noted)									
Parameter	Symbol	GR1A	GR1B	GR1D	GR1G	GR1J	GR1K	GR1M	Unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	IF(AV)	1.0						Α	
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load	IFSM	30					А		
Operating junction and storage temperature range	TJ, TSTG	- 55 to + 150						°C	

Electrical Characteristics (TA = 25 °C unless otherwise noted)										
Parameter	Test Conditions	Symbol	GR1A	GR1B	GR1D	GR1G	GR1J	GR1K	GR1M	Unit
Maximum instantaneous forward voltage	1.0 A	V _F	1.3							Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C TA=125°C	I _R	5 50						μΑ	
Maximum reverse recovery time	I _F =0.5A,I _R =1.0A, I _{rr} =0.25A	t _{rr}	150			250	500		nS	
Typical junction capacitance	4.0 V, 1 MHz	CJ	7.6						pF	
Typical thermal resistance ⁽¹⁾		$R_{\theta JA}$	61							
		$R_{\theta JC}$	30							°C/W
		$R_{\theta JL}$	6							

Note:1),The thermal resistance from junction to lead,mounted on P.C.B with 5x5mm copper pads,2 OZ,FR4 PCB

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Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

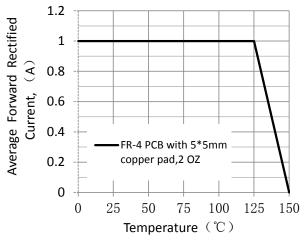


Figure 1. Forward Current Derating Curve

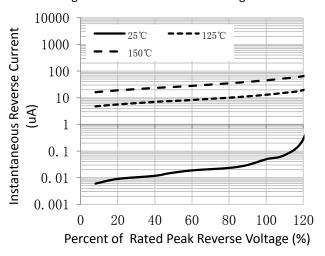


Figure 3. Typical Reverse Characteristics

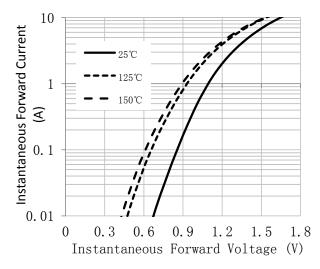


Figure 5. Typical Instantaneous Forward Characteristics

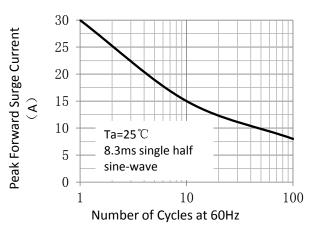


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

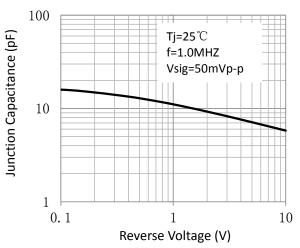
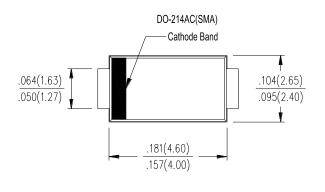


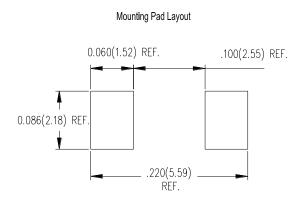
Figure 4. Typical Junction Capacitance

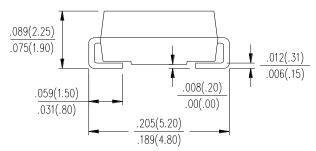
Surface Mount Glass Passivated Fast Recovery Rectifier Reverse Voltage 50~1000V Forward Current 1.0A

Package Outline Dimensions

in inches (millimeters)



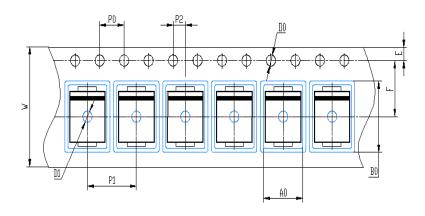




Packing Information

7500 pcs/Reel, 18 Reels/Box; 12mm Tape, 13" Reel

Tape & Reel Specification



Symbols	SMA(mm)				
W	12 ± 0.2				
Е	1.75 ± 0.1				
F	5.5 ± 0.05				
D0	1.5 ± 0.1				
D1	1. 50 +0. $1/-0$				
P0	4.0 ± 0.1				
P1	4.0 ± 0.1				
P2	2.0 ± 0.05				
A0	2.65 ± 0.1				
В0	5.25 ± 0.1				



Surface Mount Glass Passivated Fast Recovery Rectifier Reverse Voltage 50~1000V Forward Current 1.0A

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