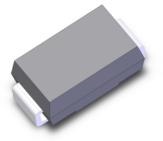


Surface Mount Glass Passivated Standard Rectifier Reverse Voltage 50~1000V Forward Current 1A

Features

- · Glass passivated Standard rectifiers
- · Ideal for automated placement
- Low forward voltage drop
- · High forward surge capability
- Moisture sensitivity: level 1, per J-STD-020
- · Add suffix "E" for Halogen Free
- Halogen-free according to IEC 61249-2-21 definition





DO-214AC(SMA)

Typical Applications

• For use of general purpose rectification in lighting, cellular phone, portable device, power supplies and other consumer applications.

Mechanical Data

- Case:DO-214AC, molded epoxy body, Epoxy meets UL 94V-0 flammability rating
- Terminal:Matte tin plated leads, solderable per J-STD-002 and JESD22B-106
- · Polarity:Indicated by cathode band

Maximum Ratings and Electrical Characteristics (TA = 25 °C unless otherwise noted)												
Parameter		Symbol	М1	M2	М3	M4	M5	М6	М7	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 TL (See Fig.1)		IF(AV)	1.0						Α			
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load		IFSM	30.0						А			
Maximum forward voltage at I _F =1.0Amps		V_{F}	1.1						Volts			
Maximum DC reverse current at rated DC blocking voltage	@Ta=25℃	I _R	5.0 50.0							- uA		
	@Ta=125℃											
Typical junction capacitance(Note1)		CJ	4.0						pF			
Typical thermal resistance(Note2)		$R_{\theta JA}$	62.0						°C/W			
		R _{0 JC}	25.0									
		$R_{\theta JL}$	3.5									
Operating junction and storage temperature range		TJ, TSTG	- 55 to + 150							°C		

Notes:1.Measured at 1.0MHz and applied reverse voltage of 4.0 D.C.

2.Thermal resistance from junction to lead, 0.197x0.197 (5.0x5.0mm) copper pads to each terminal



Surface Mount Glass Passivated Standard Rectifier Reverse Voltage 50~1000V Forward Current 1A

Ratings and Characteristics Curves

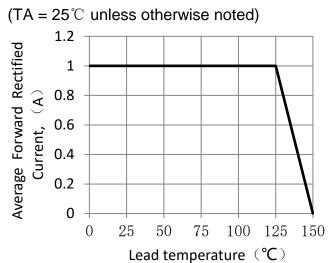
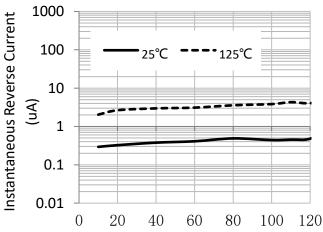


Figure 1.Forward Current Derating Curve



Percent of Rated Peak Reverse Voltage (%) Figure 3. Typical Reverse Characteristics

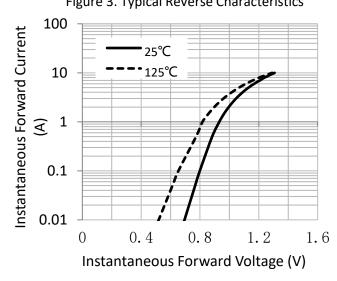


Figure 5. Typical Instantaneous Forward Characteristics

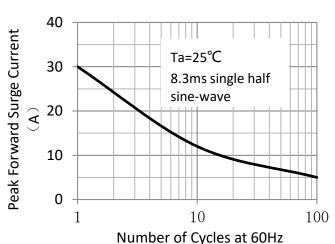


Figure 2.Maximum Non-Repetitive Peak
Forward Surge Current

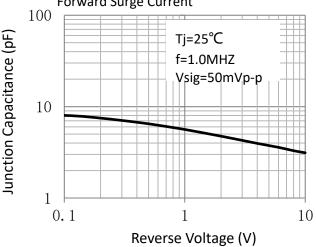


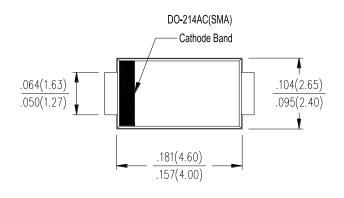
Figure 4. Typical Junction Capacitance

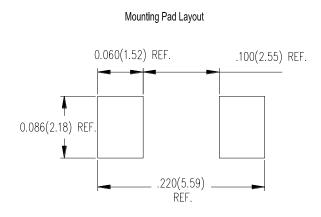


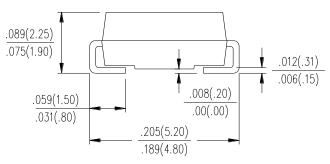
Surface Mount Glass Passivated Standard Rectifier Reverse Voltage 50~1000V Forward Current 1A

Package Outline Dimensions

in inches (millimeters)





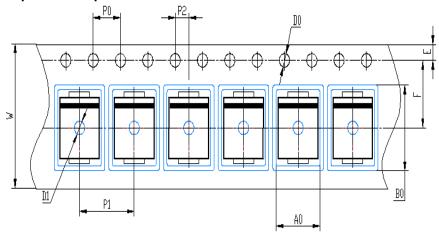


Packing Information

Packing quantities:

7500 pcs/Reel, 10 Reels/Box; 12mm Tape, 13" Reel

Tape & Reel Specification



Symbols	SMA(mm)				
W	12 ± 0.2				
Е	1.75 \pm 0.1				
F	5.5 \pm 0.05				
DO	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				
AO	2.65 ± 0.1				
ВО	5.25 ± 0.1				

Version	Revision content	Date	
---------	------------------	------	--



Surface Mount Glass Passivated Standard Rectifier Reverse Voltage 50~1000V Forward Current 1A

A Initial version release Jun-21

Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Suzhou Good-Ark product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Suzhou Good-Ark Electronics Co., Ltd.or a third party.

Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials.

All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Suzhou Good-Ark Electronics Co., Ltd. without notice due to product improvements or other reasons. It is therefore recommended that customers contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized Suzhou Good-Ark Electronics Co., Ltd. for the latest product information before purchasing a product listed herein. The information described here may contain technical inaccuracies or typographical errors. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors. Please also pay attention to information published by Suzhou Good-Ark Electronics Co., Ltd. by various means, including our website home page. (http://www.goodark.com)

When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, Please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Suzhou Good-Ark Electronics Co., Ltd. is necessary to reprint or reproduce in whole or in part these materials.

Please contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized distributor for further details on these materials or the products contained herein.