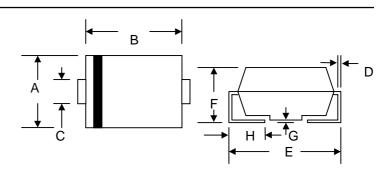


S3A - S3M

3.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 100A Peak
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)

SMC/DO-214AB					
Dim	Min Max				
Α	5.59	6.22			
В	6.60 7.11				
С	2.75	3.25			
D	0.152	0.305			
E	7.75	8.13			
F	2.00	2.62			
G	0.051	0.203			
Н	0.76	1.27			
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic		Symbol	S3A	S3B	S3D	S3G	S3J	S3K	S3M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current	t @T _L = 75°C	lo				3.0				Α
Non-Repetitive Peak Forward Su 8.3ms Single half sine-wave superated load (JEDEC Method)		IFSM				100				А
Forward Voltage	@I _F = 3.0A	VFM	1.20				V			
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 125°C	IRM				5.0 250				μA
Reverse Recovery Time (Note 1)		trr				2.5				μS
Typical Junction Capacitance (No	ote 2)	Cj				60				pF
Typical Thermal Resistance (Note	e 3)	R_{θ} JL				13				K/W
Operating and Storage Temperat	ure Range	Тj, Tsтg			-	65 to +15	0			°C

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$,

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
- 3. Mounted on P.C. Board with 8.0mm² land area.

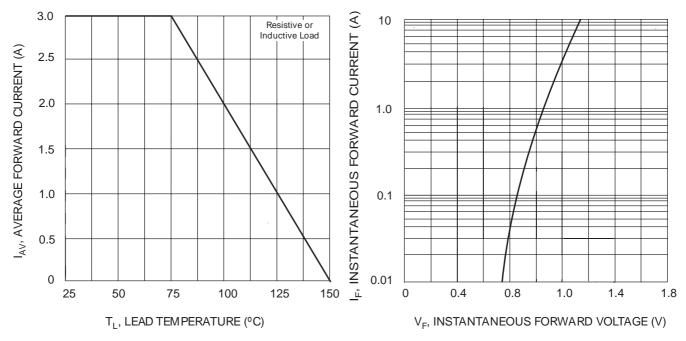
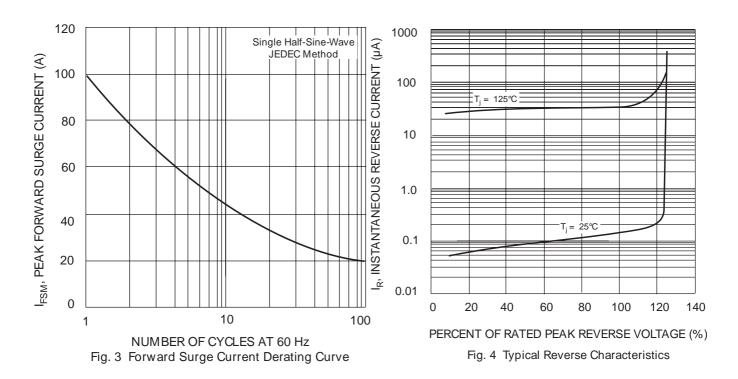


Fig. 1 Forward Current Derating Curve





ORDERING INFORMATION

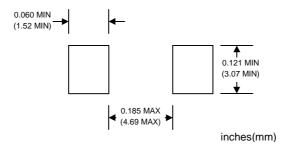
Product No.◆	Package Type	Shipping Quantity		
S3A-T1	SMC	500/Tape & Reel		
S3A-T3	SMC	3000/Tape & Reel		
S3B-T1	SMC	500/Tape & Reel		
S3B-T3	SMC	3000/Tape & Reel		
S3D-T1	SMC	500/Tape & Reel		
S3D-T3	SMC	3000/Tape & Reel		
S3G-T1	SMC	500/Tape & Reel		
S3G-T3	SMC	3000/Tape & Reel		
S3J-T1	SMC	500/Tape & Reel		
S3J-T3	SMC	3000/Tape & Reel		
S3K-T1	SMC	500/Tape & Reel		
S3K-T3	SMC	3000/Tape & Reel		
S3M-T1	SMC	500/Tape & Reel		
S3M-T3	SMC	3000/Tape & Reel		

Products listed in **bold** are WTE **Preferred** devices.

T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

RECOMMENDED FOOTPRINT



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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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We power your everyday.