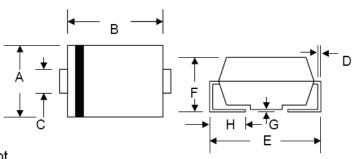


Technical Data Data Sheet N0563, Rev. A Features

Green Products

- 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
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



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: 0.093 grams (approx.)

SMB/DO-214AA								
Dim	Min	Max Mi		Max				
Α	3.30	3.94	0.130	0.155				
В	4.06	4.70	0.160	0.185				
С	1.91	2.11	0.075	0.083				
D	0.152	0.305	0.006	0.012				
Е	5.08	5.59	0.2	0.220				
F	2.13	2.44	0.084	0.096				
G	0.051	0.203	0.203 0.002					
Н	0.76	1.27	0.029	0.05				
	in ı	mm	In inch					

Marking Diagram:

Where XXXXX is YYWWL



S3AB = Part Name YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information

Device	Package	Shipping		
S3AB-S3MB	SMB (Pb-Free)	3000pcs / reel		

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

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

Characteristic		Symbol	S3AB	S3BB	S3DB	S3GB	S3JB	S3KB	S3MB	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 _L = 75°C		lo	3.0					•	Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	100						А	
Forward Voltage	@I _F = 3.0A	VFM				1.20				٧
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C		lгм	5.0 250						μA	
Reverse Recovery Time (Note 1)		trr	2.5					μS		
Typical Junction Capacitance (Note 2)		Cj	60						pF	
Typical Thermal Resistance (Note 3)		R_{θ} JL	13					K/W		
Operating and Storage Temperature Range		Тј, Тѕтс	-65 to +150					°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 $8.0 \mathrm{mm}^2$ land area.

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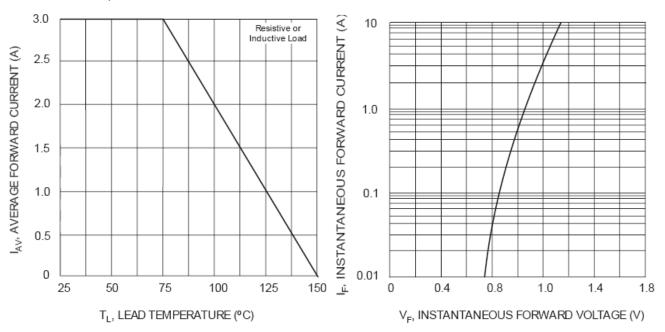
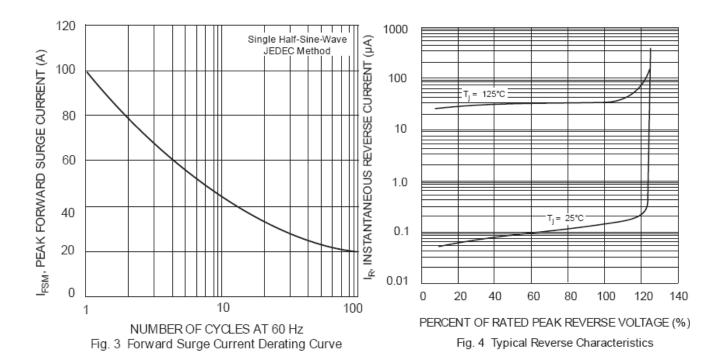


Fig. 1 Forward Current Derating Curve

Fig. 2 Typical Forward Characteristics



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