

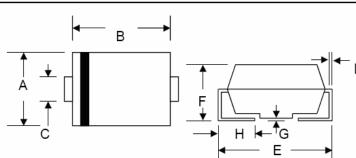
### 5.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

Technical Data Data Sheet N0565, Rev. -

### **Green Products**

## **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
- 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: 0.21 grams (approx.)

SMC/DO-214AB								
Dim	Min	Max	Min	Max				
Α	5.59	6.22	0.220	0.245				
В	6.60	7.11	0.260	0.280				
С	2.75	3.25	0.108	0.128				
D	0.152	0.305	0.006	0.012				
E	7.75	8.13	0.305	0.320				
F	2.00	2.62	0.079	0.103				
G	0.051	0.203	0.002	0.008				
Н	0.76	1.27	0.030	0.05				
	In	mm	ln i	nch				

### **Marking Diagram:**

Where XXXXX is YYWWL



 S5AC
 = Part Name

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

## Ordering Information

Device	Package	Shipping
S5AC-S5MC	SMC (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.

<sup>•</sup> Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

<sup>•</sup> FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •

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

Characteristic		Symbol	S5AC	S5BC	S5DC	S5GC	S5JC	S5KC	S5MC	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 <sub>L</sub> = 75°C		lo	5.0					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		İFSM	100					Α		
Forward Voltage	@I <sub>F</sub> = 5.0A	VFM	1.15					V		
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 125°C		lгм	10 250					μА		
Typical Junction Capacitance (Note 1)		Cj	40					pF		
Typical Thermal Resistance (Note 2)		$R_{\theta}$ JL	10					°C/W		
Operating and Storage Temperature Range		Tj, Tstg	-65 to +150					°C		

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

2. Mounted on P.C. Board with 8.0mm<sup>2</sup> land area.

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S5AC-S5MC

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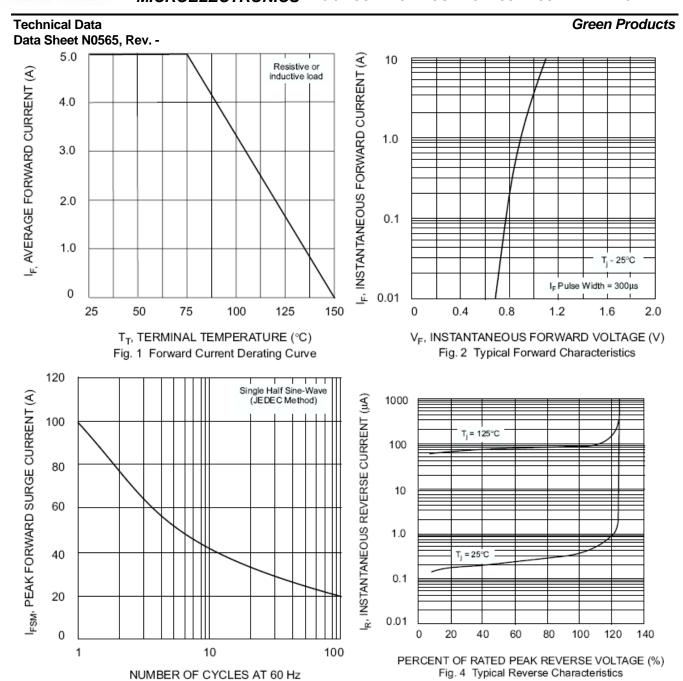


Fig. 3 Forward Surge Current Derating Curve

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Technical Data
Data Sheet N0565, Rev. -

**Green Products** 

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