# **Surface Mount Glass Passivated Rectifier**





#### Features:

- · Glass passivated chip
- · For surface mounted applications
- · Low reverse leakage current
- Low forward voltage drop
- · High current capability
- · Plastic material has UL flammability classification 94V-0

#### **Mechanical Data:**

Case : Molded Plastic

Polarity : Colour band denotes cathode Weight : 0.007 ounces, 0.21 grams

Mounting Position : Any

Forward Current : 3.0 Amperes

### **Maximum Ratings and Electrical Characteristics:**

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	S3DB+	S3GB+	S3MB+	Unit
Max. Recurrent Peak Reverse Voltage	Vrrm	200	400	1000	
Max. RMS Voltage	VRMS	140	280	700	V
Max. DC Blocking Voltage	VDC	200	400	1000	
Max. Average Forward Rectified Current  TL= 75°C	I(AV)	3			
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC method)	İFSM	100		A	
Peak Forward Voltage at 3A DC	VF		1.1		V
Max. DC Reverse Current at T <sub>J</sub> = 25°C Rated DC Blocking Voltage at T <sub>J</sub> = 125°C	lr	5 250		μA	
Typical Junction Capacitance (Note 1)	Cı	40		pF	
Typical Thermal Resistance (Note 2)	Røjl	10		°C/W	
Typical Thermal Resistance (Note 3)	Reja	50		°C/W	
Operating Temperature Range	Тл	55 to 1450		°C	
Storage Temperature Range	Тѕтс	-55 to +150			

#### Notes:

- 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 2. Thermal resistance junction to lead.
- 3. Thermal resistance junction to ambient.
- 4. The typical data above is for reference only

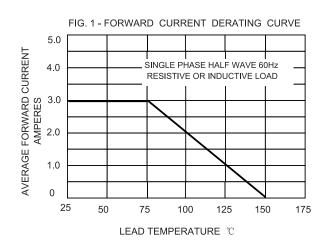
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### **Ratings and Characteristic Curves**



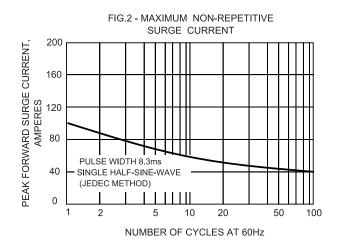


FIG.3-TYPICAL FORWARD CHARACTERISTICS

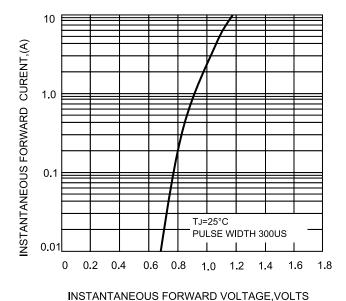
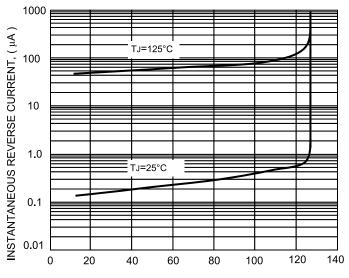


FIG.4-TYPICAL REVERSE CHARACTERISTICS

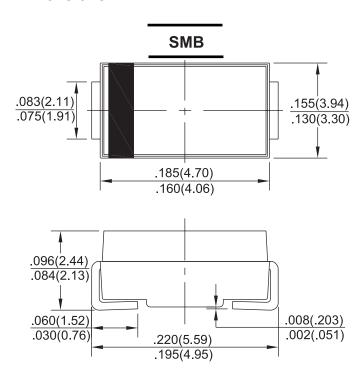


PERCENT RATED PEAK REVERSE VOLTAGE,(%)

# **Surface Mount Glass Passivated Rectifier**



### **Dimensions:**



Dimensions: Inches (Millimetres)

### **Part Number Table**

Description	Part Number		
Diode Rectifier, 3A, 200V SMB	S3DB+		
Diode Rectifier, 3A, 400V SMB	S3GB+		
Diode Rectifier, 3A, 1000V SMB	S3MB+		

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