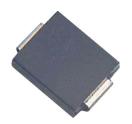
# **Surface Mount Glass Passivated Rectifier**





#### 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

## RoHS Compliant

### **Mechanical Data:**

Case : Molded Plastic

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

Mounting Position : Any

Reverse Voltage : 50 to 1000 Volts 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%.

Type Number	Symbol	S3A	S3B	S3D	S3G	S3J	S3K	S3M	Unit
Max. Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	
Max. RMS Voltage	VRMS	35	70	140	280	420	560	700	] v
Max. DC Blocking Voltage	VDC	50	100	200	400	600	800	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)	IFSM	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)	CJ	40					pF		
Typical Thermal Resistance (Note 2)	Røjl	10				°C/W			
Typical Thermal Resistance (Note 3)	Reja	50				°C/W			
Operating Temperature Range	TJ	-55 to +150				°C			
Storage Temperature Range	Tstg								

#### 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

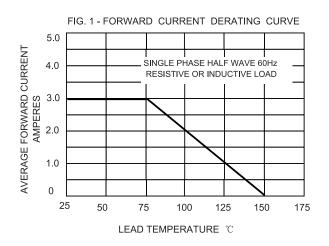
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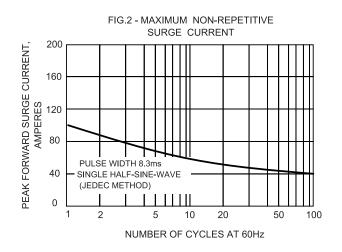


# **Surface Mount Glass Passivated Rectifier**

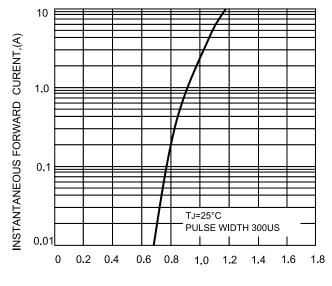


### **Ratings and Characteristic Curves**



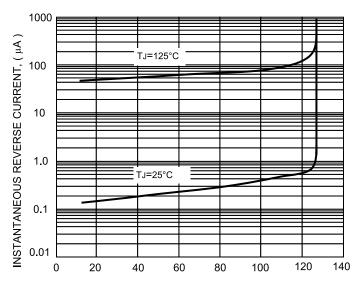


#### FIG.3-TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

#### FIG.4-TYPICAL REVERSE CHARACTERISTICS

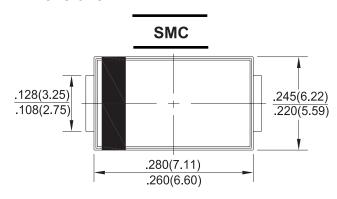


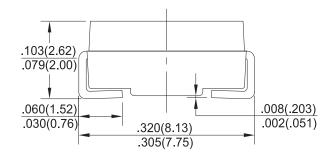
PERCENT RATED PEAK REVERSE VOLTAGE,(%)

## **Surface Mount Glass Passivated Rectifier**



### **Dimensions:**





Dimensions: Inches (Millimetres)

### **Part Number Table**

Description	Part Number			
	S3A			
	S3B			
	S3D			
Surface Mount Glass Passivated Rectifiers	S3G			
	S3J			
	S3K			
	S3M			

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