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%.

Characteristics	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 $T_J = 25^{\circ}C$ Rated DC Blocking Voltage at $T_J = 125^{\circ}C$	lR	5 250					μA		
Typical Junction Capacitance (Note 1)	Сл	40				pF			
Typical Thermal Resistance (Note 2)	Rejl	10			°C/W				
Typical Thermal Resistance (Note 3)	Reja	50			°C/W				
Operating Temperature Range	TJ	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

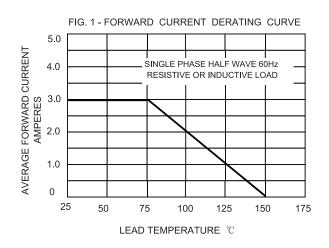
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Ratings and Characteristic Curves



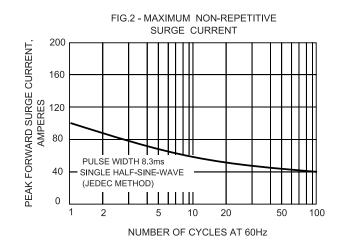


FIG.3-TYPICAL FORWARD CHARACTERISTICS

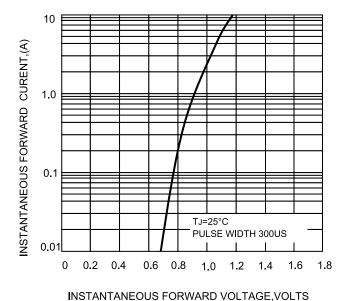
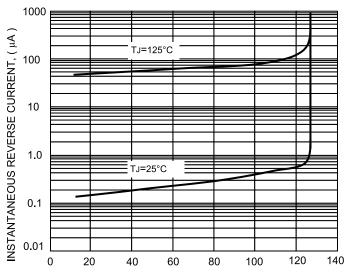


FIG.4-TYPICAL REVERSE CHARACTERISTICS

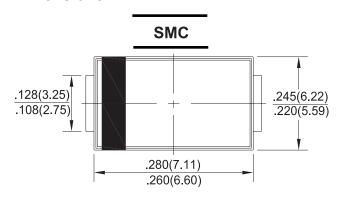


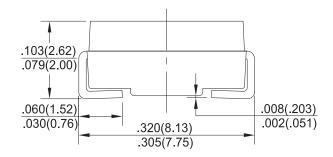
PERCENT RATED PEAK REVERSE VOLTAGE,(%)

Surface Mount Glass Passivated Rectifier



Dimensions:





Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number			
	S3A+			
	S3B+			
	S3D+			
Surface Mount Glass Passivated Rectifiers	S3G+			
Class Fassivated Restillers	S3J+			
	S3K+			
	S3M+			

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