## **Glass Passivated** 3 Phase Bridge Rectifier

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### **Features**

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- · Ideal for printed circuit boards

### **Mechanical Data**

Case	: Epoxy case with heat sink laterally mounted in the bridge encapsulation
Terminals	: Plated leads solderable per MIL-STD-202, Method 208
Polarity	: As Marked on Body
Weight	: 21 grams(approx.)
Mounting Position	: Bolt down on heatsink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency.
Mounting Torque	: 2 N.m

#### 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%

Voltage Ratings							
Characteristics	Symbol	SMT2508GW	SMT2510GW	SMT2512GW	SMT2514GW	SMT2516GW	Unit
Peak Repetitive Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	800	1000	1200	1400	1600	V
Peak Non-Repetitive Reverse Voltage	Vrsm	900	1100	1300	1500	1700	
RMS Reverse Voltage	VR(RMS)	560	700	840	980	1120	
Forward Conduction							
Characteristics	Symbol	SMT25GW Series					Unit
Maximum Average Forward Rectified Current @Tc = 55°C	lo	25					А
Peak Forward Surge Current t=8.3ms at 60Hz	IFSM	320					1
I <sup>2</sup> t Rating for fusing	l <sup>2</sup> t	840					A <sup>2</sup> S
Maximum Forward Voltage drop per element at 12.5A Peak	VF	1.1				V	
Reverse peak current VR=VRRM@TJ=25°C VR=VRRM@TJ=150°C	lr	5 3					μA mA
RMS Isolation Voltage from Case to Lead	Viso	2500					V
Thermal Characteristics		0					
Operating Temperature Range	TJ	-40 to +150					°C
Storage Temperature Range	Tstg	-40 to +125					

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### **Rating and Characteristic Curves**

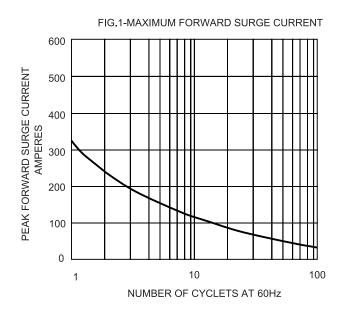


FIG.3-TYPICAL FORWARD CHARACTERISTICS

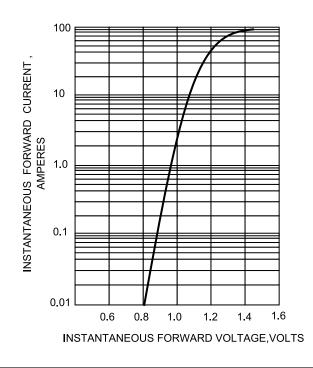
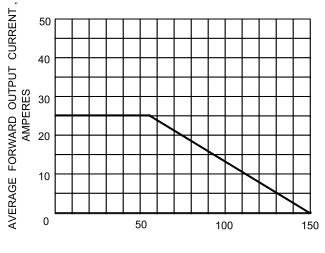
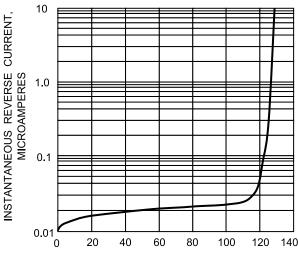


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT



CASE TEMPERATURE,°C

FIG.4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE

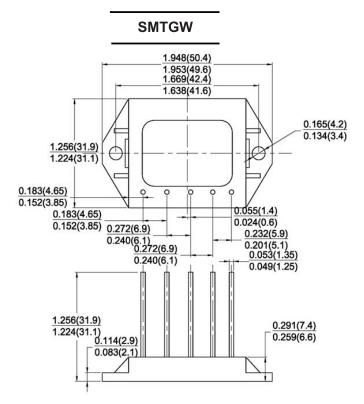
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### **Dimension:**



Dimensions : Inches (Millimetres)

### Part Number Table

Description	Part Number		
Three Phase Bridge 25A 800V SMTGW Package	SMT2508GW		
Three Phase Bridge 25A 1000V SMTGW Package	SMT2510GW		
Three Phase Bridge 25A 1200V SMTGW Package	SMT2512GW		
Three Phase Bridge 25A 1400V SMTGW Package	SMT2514GW		
Three Phase Bridge 25A 1600V SMTGW Package	SMT2516GW		

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