

**GLASS PASSIVATED 3 PHASE BRIDGE RECTIFIERS**

REVERSE VOLTAGE - **50 to 1600** Volts  
 FORWARD CURRENT - **50** Amperes

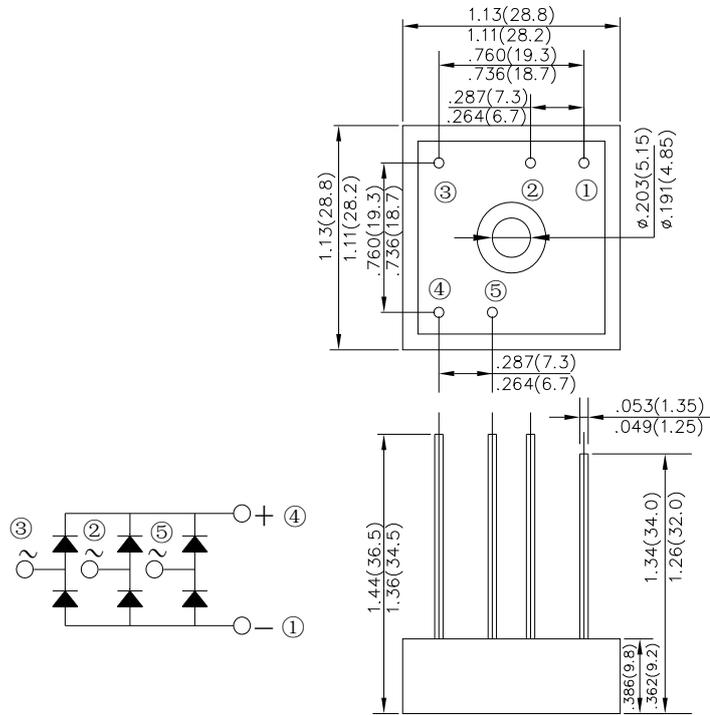
**FEATURES**

- 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 Internally 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

**SBR-W**



Dimensions in inches and (millimeters)

**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	SBR50GW										UNIT	
		-00	-01	-02	-04	-06	-08	-10	-12	-14	-16		
Peak Repetitive Voltage	V <sub>RRM</sub>												V
Working Peak Reverse Voltage	V <sub>RWM</sub>	50	100	200	400	600	800	1000	1200	1400	1600		
DC Blocking Voltage	V <sub>R</sub>												
Peak Non-Repetitive Reverse Voltage	V <sub>RSM</sub>	75	150	275	500	725	900	1100	1300	1500	1700	V	
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	840	980	1120	V	
Maximum Average Forward Rectified Current @TC=55°C	I <sub>o</sub>	50										A	
Peak Forward Surge Current t=8.3ms at 60HZ	I <sub>FSM</sub>	475										A	
I <sup>2</sup> t Rating for fusing	I <sup>2</sup> t	936										A <sup>2</sup> S	
Maximum Forward Voltage drop per element at 25A Peak	V <sub>F</sub>	1.1										V	
Reverse peak current V <sub>R</sub> =V <sub>RRM</sub> @T <sub>J</sub> =25°C V <sub>R</sub> =V <sub>RRM</sub> @T <sub>J</sub> =150°C	I <sub>R</sub>	5										µA	
		3										mA	
RMS Isolation Voltage from Case to Lead	V <sub>ISO</sub>	2500										V	
Operating Temperature Range	T <sub>J</sub>	-40 to +150										°C	
Storage Temperature Range	T <sub>STG</sub>	-40 to +150										°C	
Thermal Resistance Junction to Case at DC Operation per Bridge	R <sub>θJC</sub>	0.9										°C/W	

FIG.1-MAXIMUM FORWARD SURGE CURRENT

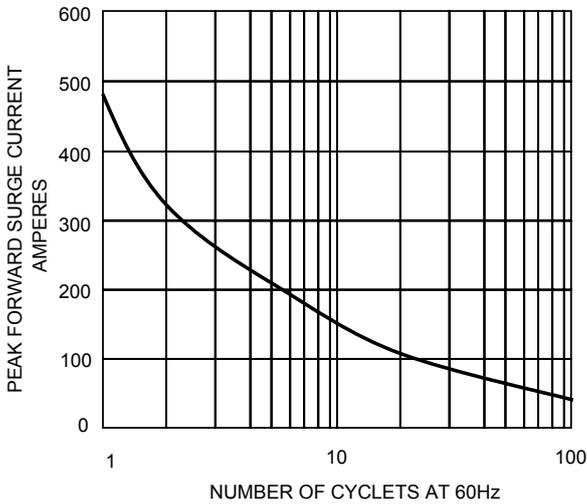


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT

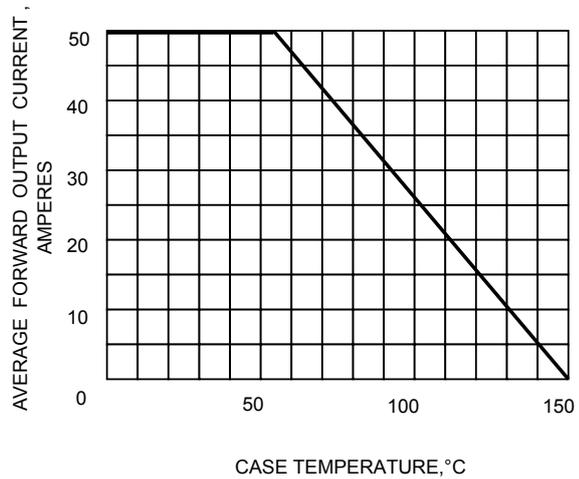


FIG.3-TYPICAL FORWARD CHARACTERISTICS

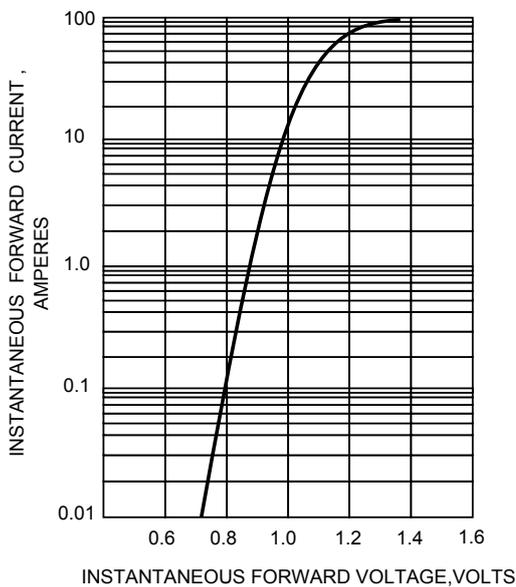
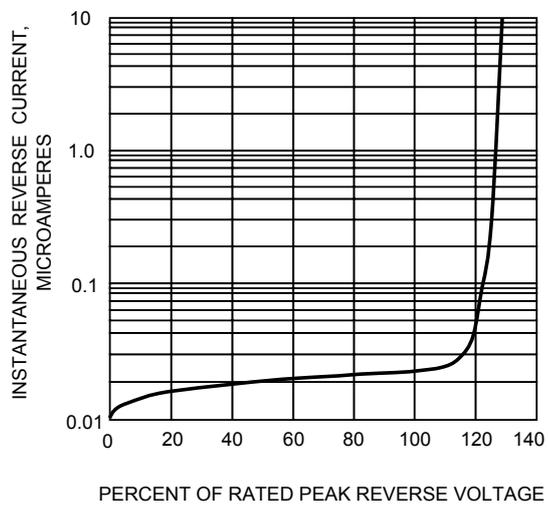


FIG.4-TYPICAL REVERSE CHARACTERISTICS



The curve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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