

GLASS PASSIVATED 3 PHASE BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1600 Volts

FORWARD CURRENT - 50 Amperes

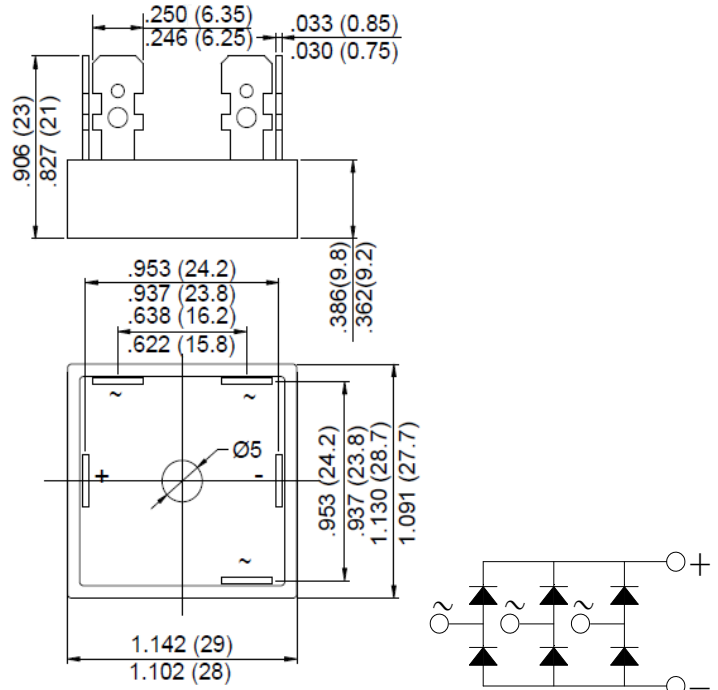
FEATURES

- 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

SBRG



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%

VOLTAGE RATINGS

CHARACTERISTICS	SYMBOL	SBR50G										UNIT	
		-00	-01	-02	-04	-06	-08	-10	-12	-14	-16		
Peak Repetitive Voltage	V_{RRM}												V
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	1200	1400	1600		V
DC Blocking Voltage	V_R												V
Peak Non-Repetitive Reverse Voltage	V_{RSM}	75	150	275	500	725	900	1100	1300	1500	1700		V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	840	980	1120		V
Maximum Average Forward Rectified Current @ $T_c=80^\circ\text{C}$	I_o	50										A	
Peak Forward Surge Current $t=8.3\text{ms}$ at 60HZ	I_{FSM}	450										A	
I ² t Rating for fusing	$I^2 t$	840										A ² S	
Maximum Forward Voltage drop per element at 25A Peak	V_F	1.1										V	
Reverse peak current $V_R=V_{RRM}@T_J=25^\circ\text{C}$ $V_R=V_{RRM}@T_J=150^\circ\text{C}$	I_R	5 3										μA mA	
RMS Isolation Voltage from Case to Lead	V_{ISO}	2500										V	
Operating Temperature Range	T_J	-40 to +150										°C	
Storage Temperature Range	T_{STG}	-40 to +125										°C	

FIG.1- DERATING CURVE OUTPUT RECTIFIED CURRENT

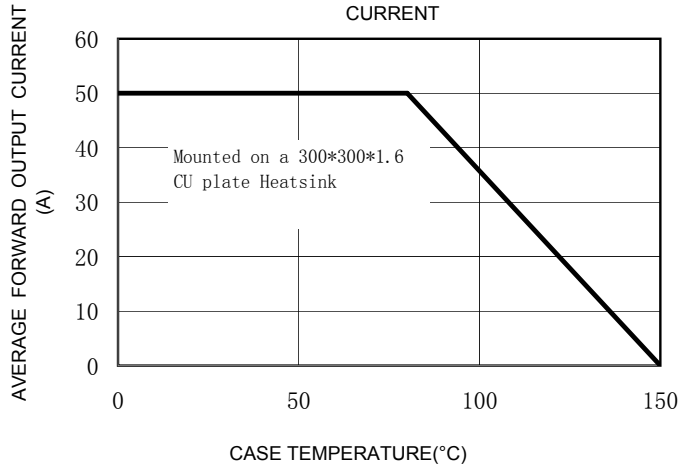


FIG.2-MAXIMUM FORWARD SURGE CURRENT

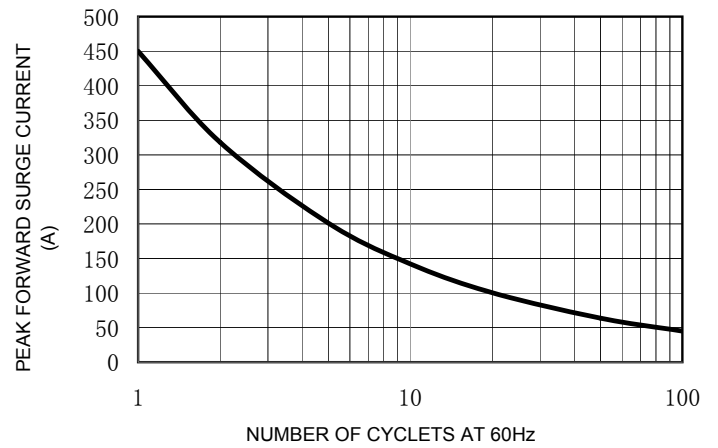


FIG.3-TYPICAL REVERSE CHARACTERISTICS

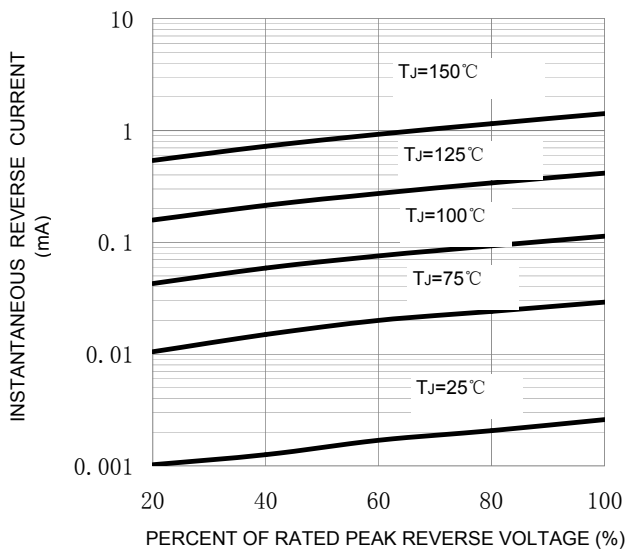
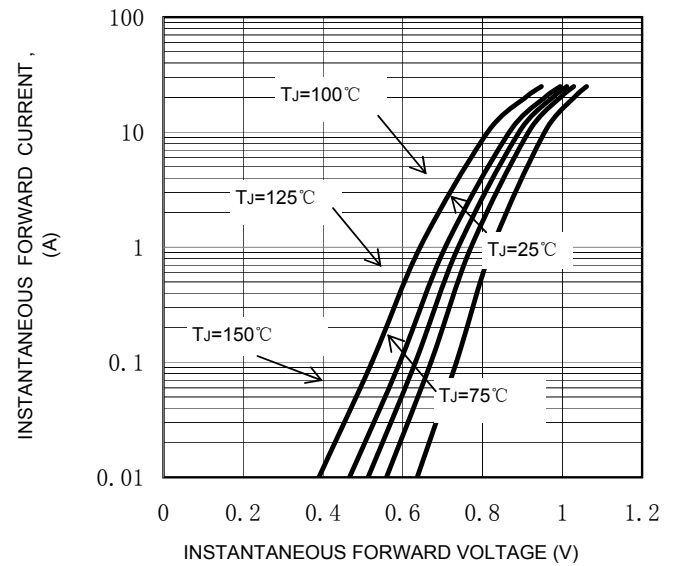


FIG.4-TYPICAL FORWARD CHARACTERISTICS



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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