

(G)SBR25A/35A SERIES

SILICON / GLASS PASSIVATED THREE PHASE BRIDGE RECTIFIERS

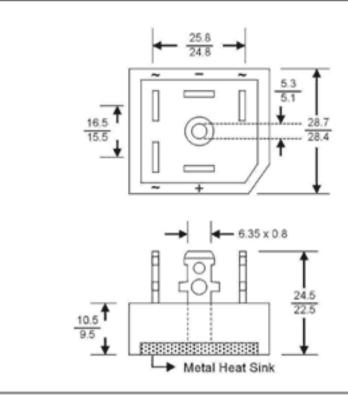
REVERSE VOLTAGE - 50 to 1600 Volts FORWARD CURRENT - 25/35 Amperes

FEATURES

- Diffused Junction
- 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 Interally Mounted in the Bridge Encapsulation
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 20 grams (approx.)
- Mounting Position:
 - Bolt Down on Heatsink With Silicone Thermal Compound Between Bridge and Mounting Surface for Maximum Heat Transfer Efficiency
- Mounting Torque: 20 in lbs. Max.
- Marking: Type Number



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	-00	-01	-02	-04	-06	-08	-10	-12	-14	-16	UNIT
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	1200	1400	1600	٧
Peak Non-Repetitive Reverse Voltage	VRSM	75	150	275	500	725	900	1100	1300	1500	1700	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	840	980	1120	V

FORWARD CONDUCTION

CHARACTERISTICS	SYMBOL	(G)SBR25	(G)SBR35	UNIT
Maximum Average Forward Rectified Current @Tc=100°C	lo	25	35	Α
Non-Repetitive Peak Forward Surge Current (No Voltage Reapplied t=8.3ms at 60Hz) (No Voltage Reapplied t=10ms at 50Hz) (100% VRRM Reapplied t=8.3ms at 60Hz) (100% VRRM Reapplied t=10ms at 50Hz)	IFSM	375 360 314 300	500 475 420 400	А
I ² t Rating for fusing (No Voltage Reapplied t=8.3ms at 60Hz) (No Voltage Reapplied t=10ms at 50Hz) (100% VRRM Reapplied t=8.3ms at 60Hz) (100% VRRM Reapplied t=10ms at 50Hz)	l² t	580 635 410 450	1030 1130 730 800	A ³ S
Forward Voltage (per element) @TJ= 25 °C, @IFM=40APK per single junction	VF	1.26	1.19	٧
Peak Reverse Current (per leg) @Tj= 25 °C At Rated DC Blocking Voltage @Tj=125 °C	IR	10 5.0		
RMS Isolation Voltage from Case to Lead	Viso	2500		

THERMAL CHARACTERISTICS

THERMAE CHARACTERISTICS								
Operating Temperature Range	TJ	-40 to +150						
Storage Temperature Range	Tstg	-40 to +150						
Thermal Resistance Junction to Case at DC Operation per Bridge	Resc	1.42	1.16	K/W				
Thermal Resistance Case to Heatsink Mounting Surface, Smooth, Flat and Greased	Recs	0.2						