



SBR35GW SERIES

Glass Passivated 3 Phase Bridge Rectifiers

Reverse Voltage - 50 to 1600Volts Forward Current - 35 Amperes

Features

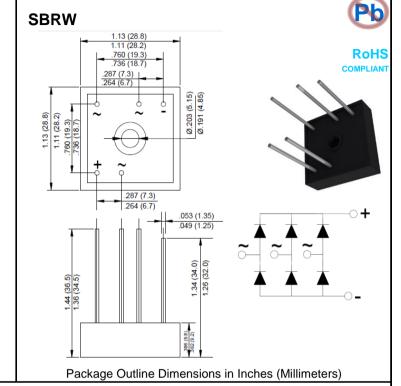
- Low forward voltage drop
- High current capability
- High reliability

Mechanical Data

- Case: Epoxy case with heat sink
- Polarity: Symbol marked on body
- Mounting position:
- Bolt pass through the mounting hole of body then fixto heat sink
- Mounting torque: 2 N.m

Applications

 For use in high power supply inverters, servo motor and welding machine applications



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%.

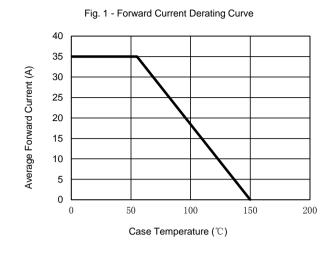
Characteristics	Symbol	SBR35										Unit
	Symbol	00GW	01GW	02GW	04GW	06GW	08GW	10GW	12GW	14GW	16GW	
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	1200	1400	1600	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	840	980	1120	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	1200	1400	1600	V
Peak Non-Repetitive Reverse Voltage	Vrsm	75	150	275	500	725	900	1100	1300	1500	1700	V
Maximum Average Forward Rectified Current @Tc=55 ℃	I(AV)	35										Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM		450									
Superimposed on Rated Load (JEDEC Method)	IFSM											
I ² t Rating for Fusing (t<8.3mS)	l ² t	840									A ² S	
Peak Forward Voltage per Diode at 17.5A DC	VF	1.1									V	
Maximum DC Reverse Current at Rated @Tj=25 $^{\circ}$ C	ls.	IR 5									μΑ	
DC Blocking Voltage per Diode @TJ=150°C	IK	3								mA		
RMS Isolation Voltage from Case to Lead	Viso	2500										V
Typical Thermal Resistance Junction to Case per Diode	Rejc	0.9										°C/W
Operating Junction Temperature Range	TJ	-40 to +150										$^{\circ}$
Storage Temperature Range	Tstg	-40 to +150									$^{\circ}$	

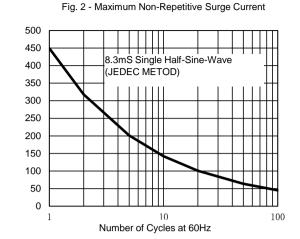
Note: The typical data above is for reference only

SBR35*GW-B-00/99/92-00/01

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Peak Forward Surge Current (A)



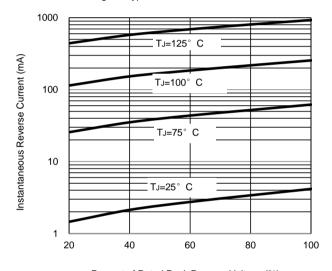


Fig. 4 - Typical Forward Characteristics 20 10 TJ=100° Instantaneous Forward Current (A) T_J=25° C TĴ=75° C Pulse Width 300uS 2%Duty Cycle 0.1 1.6 0.2 0.6 1.0 0.4 0.8 1.2 1.4

Instantaneous Forward Voltage (V)

Percent of Rated Peak Reverse Voltage (%)

The curve above is for reference only.

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