RoHS



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
- ●Meet UL flammability classification 94V-0

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

Note: Products with logo

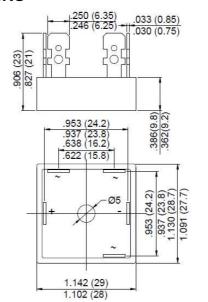


are made by HY Electronic (Cayman) Limited.

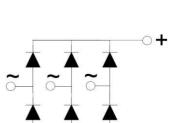
Applications

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

SBRG







Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

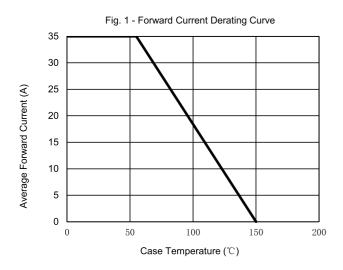
For capacitive load, derate current by 20%.

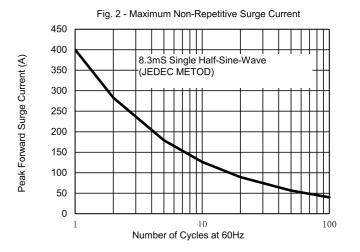
Characteristics	Symbol	SBR35	SBR35	SBR35	SBR35	SBR35	SBR35	SBR35	SBR35	SBR35	SBR35	Unit
		-00G	-01G	-02G	-04G	-06G	-08G	-10G	-12G	-14G	-16G	
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	1200	1400	1600	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	840	980	1120	V
Maximum 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	Land	25										Α
Current @TC=55 ℃	I(AV)		35									
Peak Forward Surge Current, 8.3mS Single												
Half Sine-Wave,Superimposed	Ігѕм		400									
on Rated Load (JEDEC Method)												
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 @Tյ=25°ℂ	lr	5										μΑ
DC Blocking Voltage per Diode @Tɹ=150 $^{\circ}\!$	IK		3									
RMS Isolation Voltage from Case to Lead	Viso	2500										V
Operating Junction Temperature Range	TJ	-55 to +150										$^{\circ}$
Storage Temperature Range	Tstg	-55 to +125										$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +125										

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

Rev. 11, 20-Dec-2019







1000 TJ=150° C Instantaneous Reverse Current (mA) 100 TJ=125° C TJ=100° C 10 T_J=75° C 1

Fig. 3 - Typical Reverse Characteristics

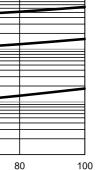


Fig. 4 - Typical Forward Characteristics 20 Pulse Width 300uS 2%Duty 10 Instantaneous Forward Current (A) TJ=100° C TJ=25° C TJ=125 TJ=75° C 0.0 0.2

Instantaneous Forward Voltage (V)

Percent of Rated Peak Reverse Voltage (%)

0 20



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