

Glass Passivated 3 Phase Bridge Rectifiers

Reverse Voltage - 1200 Volts Forward Current - 50 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

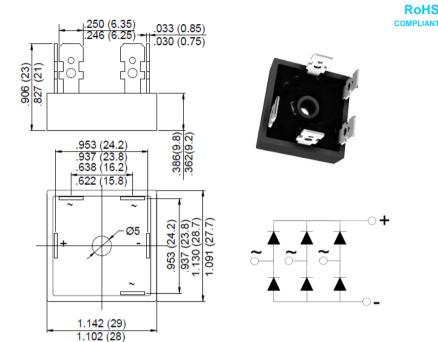
Note: Products with logo are made by HY Electronic (Cayman) Limited.

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.

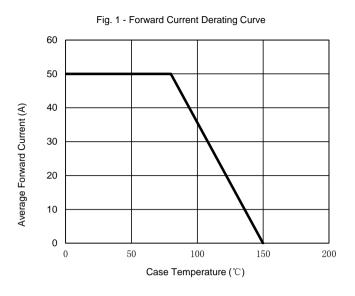
Single phase, half wave, 60Hz, resistive or inductive load.

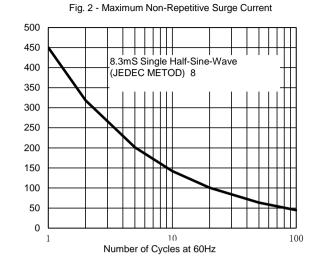
For capacitive load, derate current by 20%.

Symbol	SBR50	SBR50	SBR50	SBR50	SBR50	SBR50	SBR50	SBR50	SBR50	SBR50	Unit
	-00G	-01G	-02G	-04G	-06G	-08G	-10G	-12G	-14G	-16G	
VRRM	50	100	200	400	600	800	1000	1200	1400	1600	V
VRMS	35	70	140	280	420	560	700	840	980	1120	V
VDC	50	100	200	400	600	800	1000	1200	1400	1600	V
VRSM	75	150	275	500	725	900	1100	1300	1500	1700	V
Lavo	50										А
I(AV)											
Ігѕм	IFSM 450										Α
l ² t	840									$A^2 S$	
VF	1.1										V
I-	3										μA
IR	2										mA
Viso	2500										V
TJ	-55 to +150										$^{\circ}$
Тѕтс	-55 to +125										$^{\circ}$
	VRRM VRMS VDC VRSM I(AV) IFSM I° t VF IR VISO TJ	Symbol -00G -00G	Symbol -00G -01G -00G -01G -00G -01G	Symbol -00G -01G -02G VRRM 50 100 200 VRMS 35 70 140 VDC 50 100 200 VRSM 75 150 275 I(AV)	Symbol -00G -01G -02G -04G VRRM 50 100 200 400 VRMS 35 70 140 280 VDC 50 100 200 400 VRSM 75 150 275 500 I(AV)	Symbol -00G -01G -02G -04G -06G VRRM 50 100 200 400 600 VRMS 35 70 140 280 420 VDC 50 100 200 400 600 VRSM 75 150 275 500 725 I(AV) 5 IFSM 4! VF 1 IR 7 VISO 25 TJ -55 to	Symbol -00G -01G -02G -04G -06G -08G VRRM 50 100 200 400 600 800 VRMS 35 70 140 280 420 560 VDC 50 100 200 400 600 800 VRSM 75 150 275 500 725 900 I(AV) 50	Symbol -00G -01G -02G -04G -06G -08G -10G VRRM 50 100 200 400 600 800 1000 VRMS 35 70 140 280 420 560 700 VDC 50 100 200 400 600 800 1000 VRSM 75 150 275 500 725 900 1100 I(AV)	Symbol -00G -01G -02G -04G -06G -08G -10G -12G VRRM 50 100 200 400 600 800 1000 1200 VRMS 35 70 140 280 420 560 700 840 VDC 50 100 200 400 600 800 1000 1200 VRSM 75 150 275 500 725 900 1100 1300 I(AV) 50 IFSM 450 VF 1.1 IR 2 VISO 2500 2500 TJ FSM 75 700 700 700 700 700 700 700 700 700 IVERN 1000 1000 1000 1000 1000 1000 1000 1000 IVERN 1000	Symbol -00G -01G -02G -04G -06G -08G -10G -12G -14G VRRM 50 100 200 400 600 800 1000 1200 1400 VRMS 35 70 140 280 420 560 700 840 980 VDC 50 100 200 400 600 800 1000 1200 1400 VRSM 75 150 275 500 725 900 1100 1300 1500 I(AV)	Symbol -00G -01G -02G -04G -06G -08G -10G -12G -14G -16G VRRM 50 100 200 400 600 800 1000 1200 1400 1600 VRMS 35 70 140 280 420 560 700 840 980 1120 VDC 50 100 200 400 600 800 1000 1200 1400 1600 VRSM 75 150 275 500 725 900 1100 1300 1500 1700 I(AV)

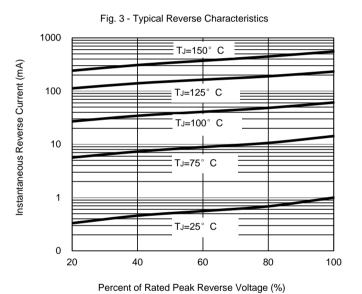
SBR50*G-B-00/99-00/01 Rev. 11, 18-May-2020

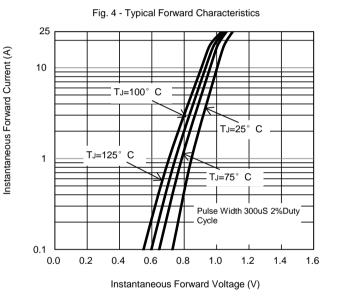






Peak Forward Surge Current (A)





The curve above is for reference only.



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