



SGBJ35 SERIES

Glass Passivated 3 Phase Bridge Rectifiers

Reverse Voltage - 800 to 1600Volts Forward Current - 35 Amperes

Features

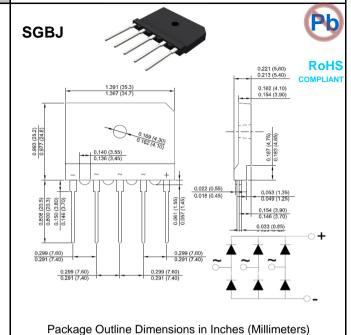
- Low forward voltage drop
- High current capability
- High reliability 高

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
- Maximum Mounting torque (M4)¹: 0.8 N.m 8N.m

Applications

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



Fackage Outline Dimen

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	0	SGBJ35	SGBJ35	SGBJ35	SGBJ35	Unit
	Symbol	-08	-10	-12	-16	
Maximum Repetitive Peak Reverse Voltage	VRRM	800	1000	1200	1600	V
Maximum RMS Voltage	VRMS	560	700	840	1120	V
Maximum DC Blocking Voltage	VDC	800	1000	1200	1600	V
Peak Non-Repetitive Reverse Voltage	Vrsm	900	1100	1300	1700	V
Maximum Average Forward Rectified Current @Tc=110 $^{\circ}$ C	l(AV)	35				Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM		400			Α
Superimposed on Rated Load (JEDEC Method)	IFSM	400				
I ² t Rating for Fusing (t<8.3mS)	l ² t	664				A ² S
Peak Forward Voltage per Diode at 17.5A DC	VF	1.1				V
Maximum DC Reverse Current at Rated @TJ=25℃	5 IR				μA	
DC Blocking Voltage per Diode @TJ=150℃	IR	IR			3	
Typical Thermal Resistance to Case	Rejc	0.8				°C/W
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				$^{\circ}$

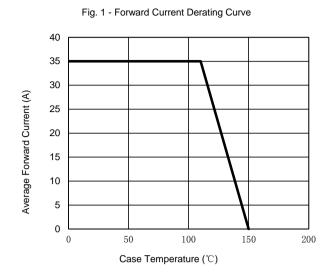
Notes: 1. Surface roughness of Heat sink <0.05mm

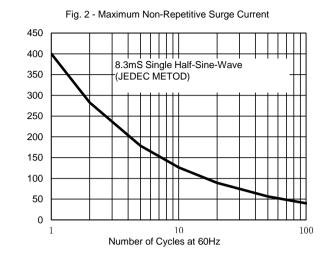
2. The typical data above is for reference only

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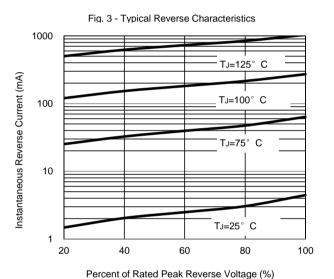
Rev. 9, 22-Apr-2019

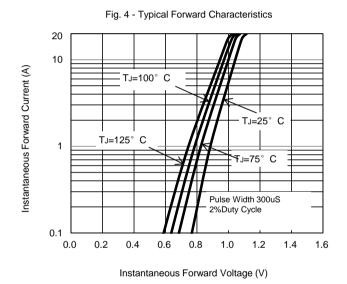






Peak Forward Surge Current (A)





The curve above is for reference only.

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Rev. 9, 22-Apr-2019



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Rev. 2, 16-Mar-2017