

## Glass Passivated 3 Phase Bridge Rectifiers

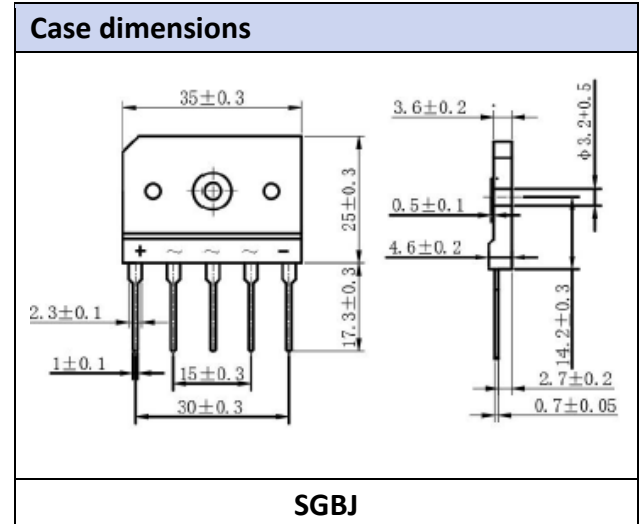
Primary characteristics		
Parameter	Value	Unit
Maximum Repetitive Peak Reverse Voltage	800 ~ 1600	V
Maximum Average Forward Rectified Current	35	A

### Features

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

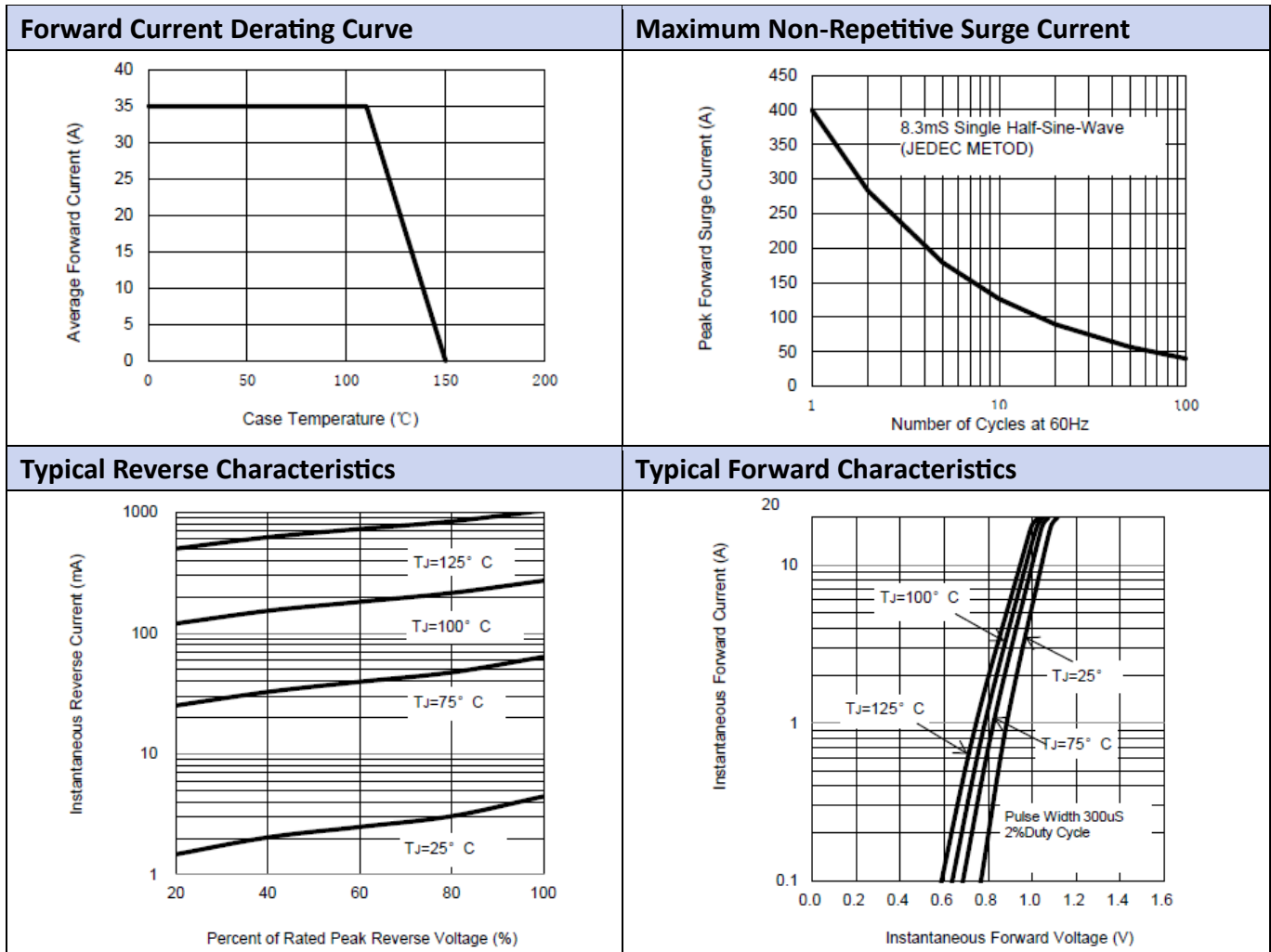
### Application

- For use in high power supply inverters, welding machine applications



Absolute maximum ratings and general electrical characteristics (T <sub>a</sub> = 25°C)						
Parameter	Symbol	Value				Unit
		SGBJ-08	SGBJ-10	SGBJ-12	SGBJ-16	
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	800	1000	1200	1600	V
Maximum RMS voltage	V <sub>RMS</sub>	560	700	840	1120	
Maximum DC blocking voltage	V <sub>DC</sub>	800	1000	1200	1600	
Peak Non-Repetitive Reverse Voltage	V <sub>RSM</sub>	900	1100	1300	1700	
Maximum average forward rectified current T <sub>c</sub> =110°C	I <sub>(AV)</sub>	35				A
Peak forward surge current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	400				
Peak Forward Voltage per Diode at 17.5A	V <sub>F</sub>	1.1				V
Maximum DC reverse current at rated DC blocking voltage	T <sub>a</sub> =25°C	5				µA
	T <sub>a</sub> =150°C	3				mA
I <sup>2</sup> t Rating for Fusing (t<8.3mS)	I <sup>2</sup> t	664				A <sup>2</sup> S
Typical thermal resistance <sup>2)</sup>	R <sub>θJA</sub>	0.8				°C/W
RMS Isolation Voltage from Case to Lead	V <sub>ISO</sub>	2500				V
Operating junction and storage temperature range	T <sub>j</sub> , T <sub>STG</sub>	-55 ~ 150 / -55 ~ 125				°C

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



Ordering information		
Part Number	Package	Shipping Quantity
SGBJ35XX	SGBJ	250 pcs

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