

Glass Passivated 3 Phase Bridge Rectifiers

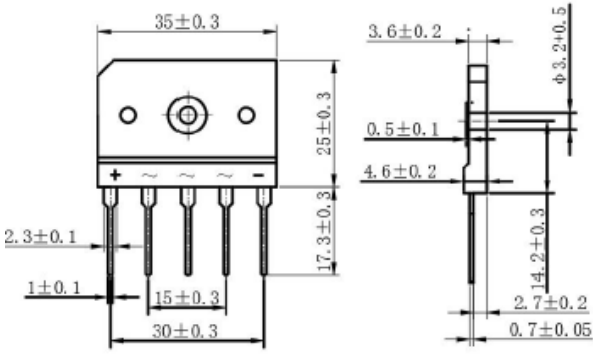
Primary characteristics		
Parameter	Value	Unit
Maximum Repetitive Peak Reverse Voltage	800 ~ 1600	V
Maximum Average Forward Rectified Current	35	A

Features

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

Application

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

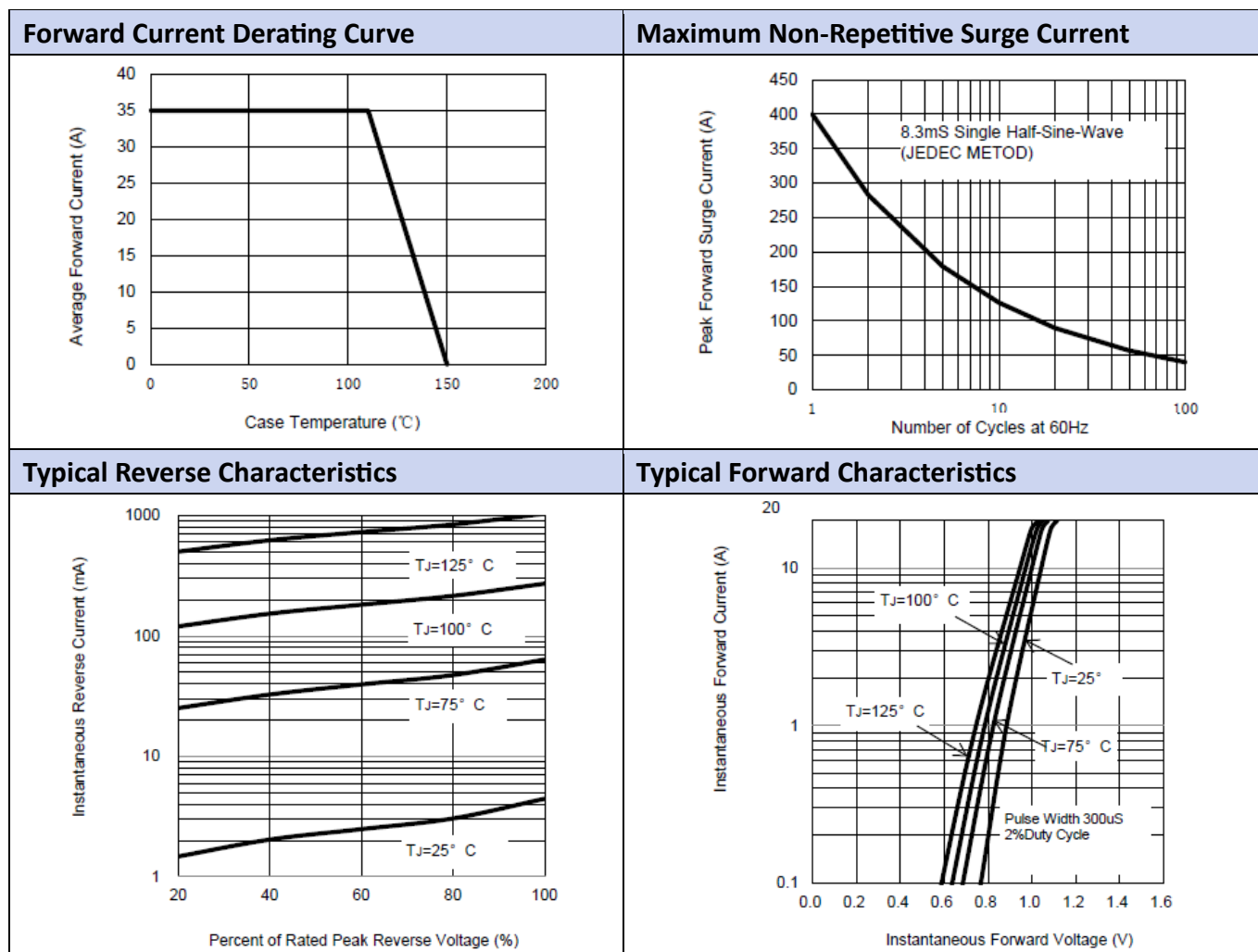
Case dimensions	
	
SGBJ	

Absolute maximum ratings and general electrical characteristics (T_a = 25°C)

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