

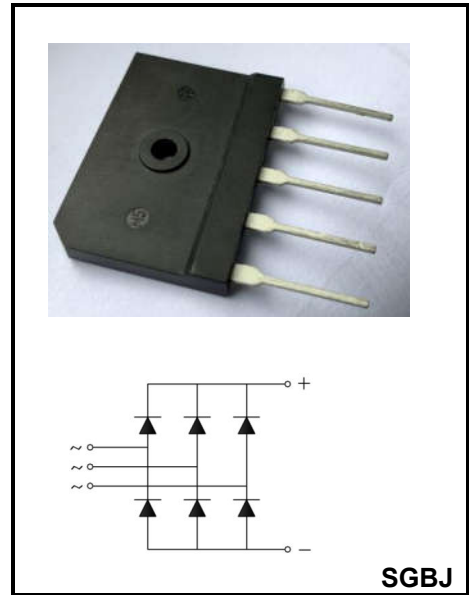
50A GLASS PASSIVATED BRIDGE RECTIFIER Reverse

Voltage - 800 to 1600 V

Forward Current – 50A

FEATURES

- ◆ Surge overload rating-500 amperes peak
- ◆ Polarity:As marked on body
- ◆ Ideal for printed circuit board
- ◆ Plastic material has U/L



The flammability classification 94V-0

- ◆ Reliable low cost construction utilizing molded plastic technique

MECHANICAL DATA

- ◆ Case: SGBJ
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026

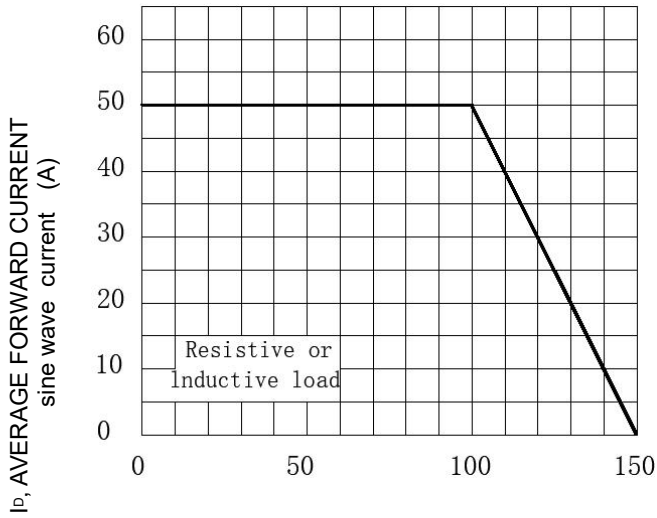
Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

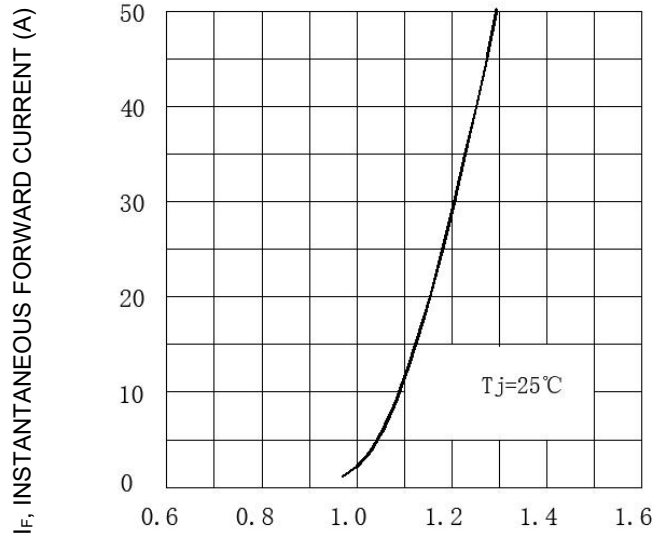
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	SGBJ5008	SGBJ5010	SGBJ5012	SGBJ5014	SGBJ5016	Units	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	800	1000	1200	1400	1600	V	
Maximum RMS voltage	V_{RMS}	900	1100	1300	1500	1700	V	
Maximum DC Blocking Voltage	V_{DC}	800	1000	1200	1400	1600	V	
Maximum Average Forward Rectified Current	$I_{(AV)}$	50						A
Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) 50Hz $T_j=25^{\circ}C$	I_{FSM}	500						A
Forward Voltage per element @ $I_F=25A$ DC	V_F	1.10						V
Maximum reverse current at rated Blocking voltage per leg $T_j=150^{\circ}C$	I_{RRM}	3						mA
Rating for fusing (t=1~10ms)	I^2t	1200						A ² S
A.C.50/60Hz;R.M.S.;1min	Viso	2500						V
Mounting Torque (Recommended torque:0.65 N· m)	Ms	0.8						N· m
Approximate Weight	Wt	10						g
Maximum thermal resistance per (1) tpotar ldiode	$R_{\theta JC}$	9/1.5						°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-40 ~ +150						°C

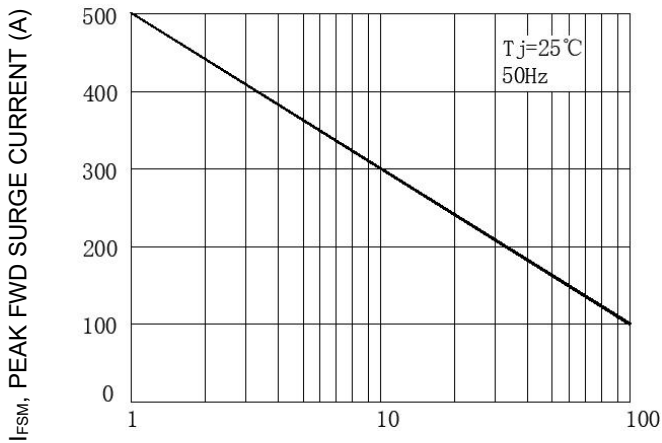
RATINGS AND CHARACTERISTIC CURVES



T_C , TEMPERATURE (°C)
Fig.1 Forward Current Derating Curve



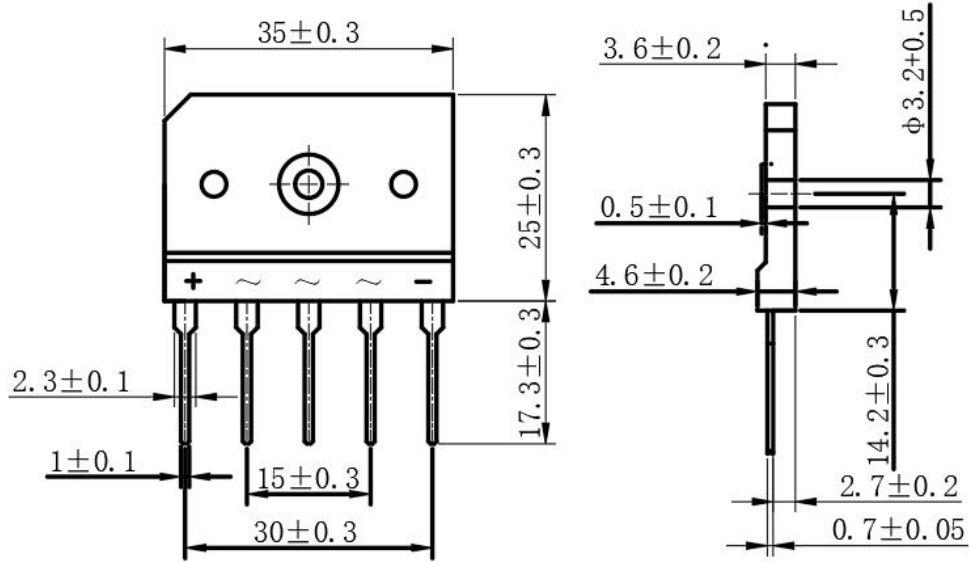
V_F , INSTANTANEOUS FWD VOLTAGE (V)
Fig.2 Maximum Forward Characteristics, per element



NUMBER OF CYCLES
Fig.3 Max Non-Repetitive Surge Current

Package Outline Dimensions millimeters

CASE: SGBJ



Dimensions in inches (mm)

Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
SGBJ	BOX	100	EIA-481-1

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Bridge Rectifiers](#) category:

Click to view products by [YFW Electronics](#) manufacturer:

Other Similar products are found below :

[MB252](#) [MB356G](#) [MB358G](#) [GBJ1504-BP](#) [GBU10B-BP](#) [GBU15K-BP](#) [GBU4A-BP](#) [GBU4D-BP](#) [DB101-BP](#) [DF01](#) [DF10SA-E345](#) [KBPC50-10S](#) [RS405GL-BP](#) [GBJ1502-BP](#) [GBU6M](#) [TB102M](#) [MB1510](#) [MB86](#) [TL401G](#) [MDA920A2](#) [TU602](#) [TU810](#) [MP5010W-BP](#) [MP501W-BP](#) [MP502-BP](#) [KBPC25-02](#) [VBO160-12NO7](#) [VS-110MT120KPBF](#) [VS-60MT80KPBF](#) [DB105-BP](#) [DF1510S](#) [VS-40MT160PAPBF](#) [GBU4G-BP](#) [GSIB15A80-E3/45](#) [DB104-BP](#) [D3SB60](#) [TB354](#) [GBJ2504-BP](#) [26MB100A](#) [B1S-G](#) [VS-40MT160KPBF](#) [VUO162-16NO7](#) [ABS10-G](#) [GBU6B-BP](#) [GBJ1508-BP](#) [BR5010-G](#) [ABS6-G](#) [B125C800G-E4/51](#) [MSB15MH-13](#) [LBS10-13](#)