

25A Glass Passivated Three Phase Bridge Rectifiers

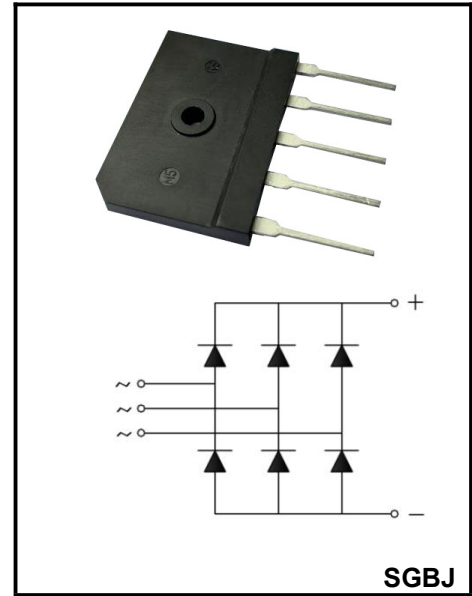
Voltage - 800 to 1600 V
Forward Current – 25A

FEATURES

- ◆ Glass passivated die construction
- ◆ Ideal for printed circuit boards
- ◆ High surge current capability
- ◆ High temperature soldering guaranteed:
265°C /10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension

MECHANICAL DATA

- ◆ Case: Molded plastic case
- ◆ Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- ◆ Polarity: Marked on Body
- ◆ Mounting Position: Any



Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)

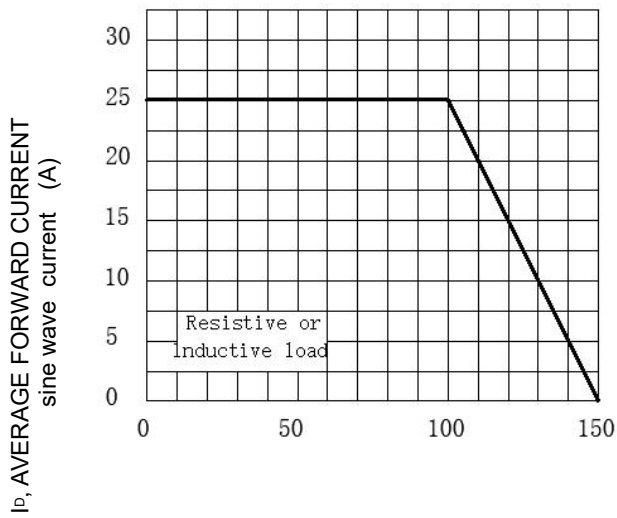
Conditions	Symbol	SGBJ2508	SGBJ2510	SGBJ2512	SGBJ2514	SGBJ2516	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	800	1000	1200	1400	1600	V
Maximum RMS voltage	V_{RMS}	900	1100	1300	1500	1700	V
Maximum DC Blocking Voltage	V_{DC}	800	1000	1200	1400	1600	V
average forward output current sine wave ,R-load Tc =100°C	I_D	25					A
Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) 50Hz Tj=25°C	I_{FSM}	350					A
Rating for fusing (t=1~10ms)	I^2t	612					A ² s
A.C.50/60Hz;R.M.S.;1min	V_{ISO}	2500					V
Operating Junction and storage temperature range	T_j T_{stg}	-40 to +150					°C
Mounting Torque (Recommended torque:0.65 N • m)	M_s	0.8					N•m
Approximate Weight	W_t	10					g

Electrical Characteristics (TA = 25°C unless otherwise noted)

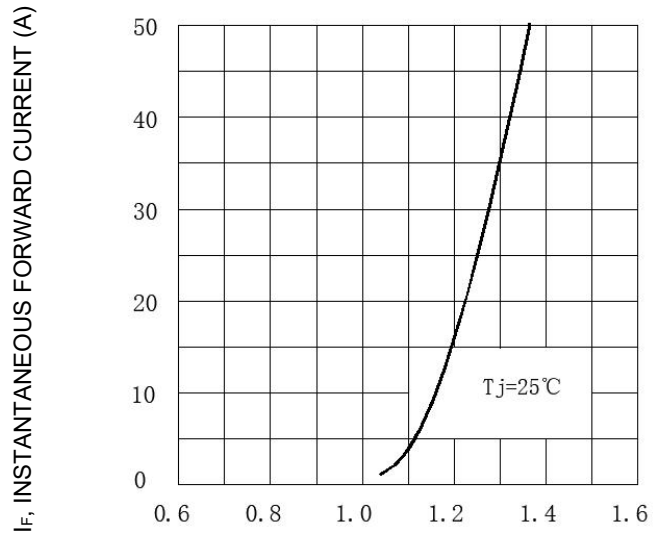
Conditions	Symbol	Values	Units
Maximum Forward Voltage per leg $I_F = 12.5A$ $T_j = 25^\circ C$	V_{FM}	1.18	V
Maximum reverse current at rated blocking voltage per leg $T_j = 150^\circ C$	I_{RRM}	3	mA
Maximum thermal resistance per ⁽¹⁾ per diode total	$R_{th(j-c)}$	9 1.5	°C/W

Notes: (1) Junction to case

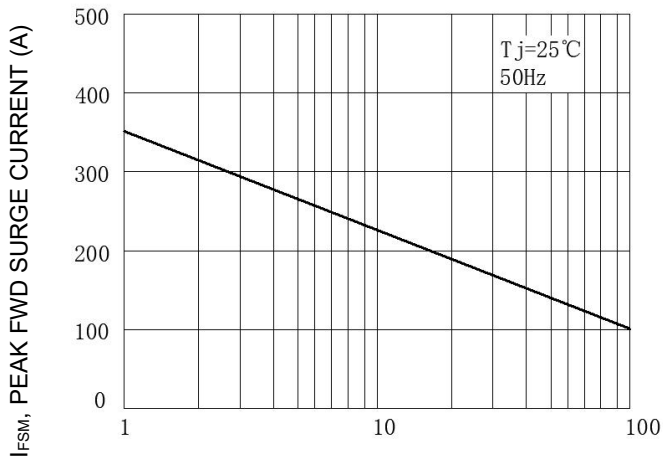
Performance Curves



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



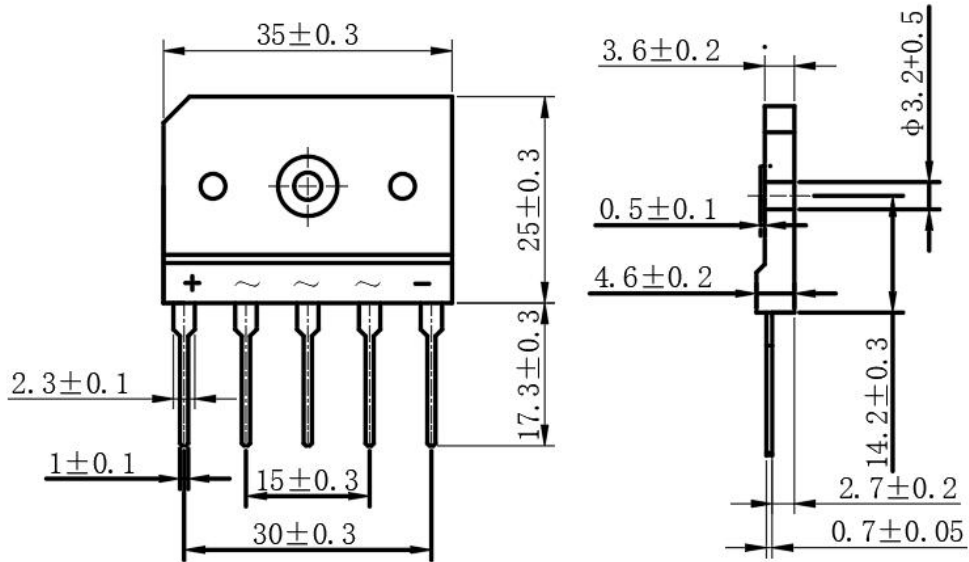
V_F , INSTANTANEOUS FWD VOLTAGE (V)
Fig.2 Maximum Forward Characteristics, per element



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

Package Outline

SGBJ



Dimensions in inches (mm)

Summary of Packing Options

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

单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)