

**35A High Current Glass Passivated Single Phase**

**Voltage - 800 to 1600 V**

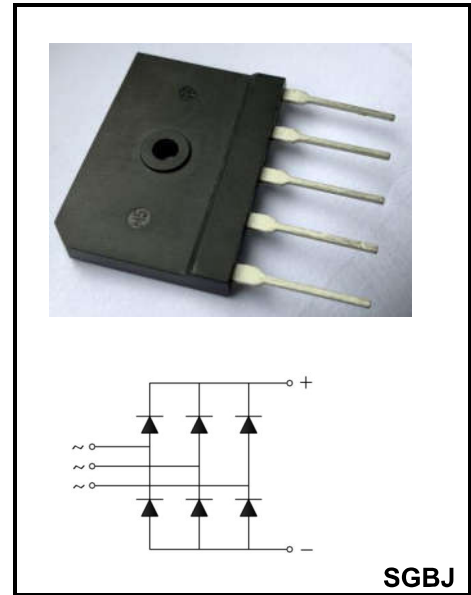
**Forward Current – 35A**

**FEATURES**

- ◆Glass passivated chip
- ◆Low reverse leakage current
- ◆High surge current capability
- ◆Compliant to RoHS directive 2011/65/EU

**MECHANICAL DATA**

- ◆Case: SGBJ-B
- ◆Terminals: Solderable per MIL-STD-202, Method 208
- ◆Approx. Weight: About 10 grams



**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	SGBJ3508	SGBJ3510	SGBJ3512	SGBJ3516	Units
Maximum Repetitive Peak Reverse Voltage		$V_{RRM}$	800	1000	1200	1600	V
Average rectified output current	with heatsink, $T_c=85^{\circ}C$	$I_{(AV)}$	35				A
Peak surge forward current, 8.3ms single half sine-wave superimposed on rated load		$I_{FSM}$	450				A
Rating for fusing, $1ms < t < 8.3ms$ , $T_j=25^{\circ}C$ , Rating of per diode		$I^2t$	840				A <sup>2</sup> S
Junction temperature and Storage temperature		$T_j, T_{stg}$	-55 ~ +150				°C
Dielectric strength, terminals to case AC 1 minute		$V_{DS}$	2.5				KV
Peak Forward Voltage @ $I_F=17.5A$		$V_F$	1.1				V
Peak Reverse Current $V_R=V_{RRM}$ , Pulse measurement Rating of per diode	$T_j=25^{\circ}C$ $T_j=125^{\circ}C$	$I_R$	5 500				uA
Junction to ambient thermal resistance, without heatsink		$R_{\theta JA}$	18				°C/W
Junction to case thermal resistance, with heatsink		$R_{\theta JC}$	1.5				°C/W

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) Device mounted on 75mm\*75mm\*1.6mm cu plate heatsink

**RATINGS AND CHARACTERISTIC CURVES**

图 1. 电流降额曲线

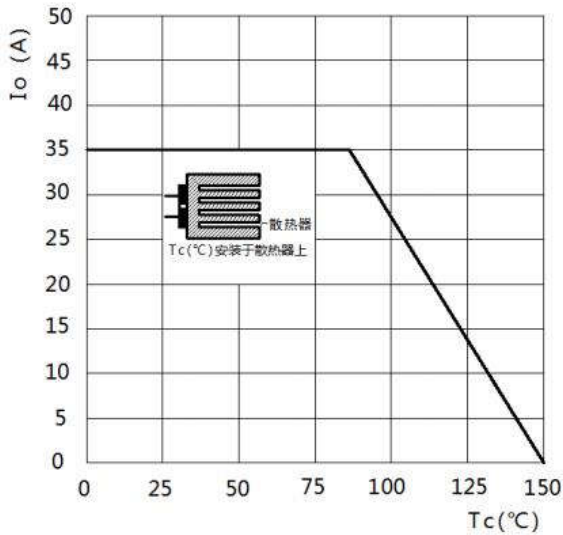


图 2. 最大正向不重复峰值浪涌电流

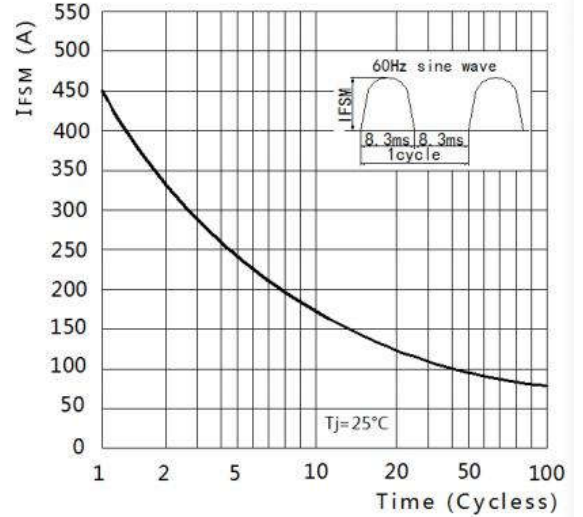


FIG3. Typical Reverse Characteristics Per Bridge Element

图 3. 典型反向特性

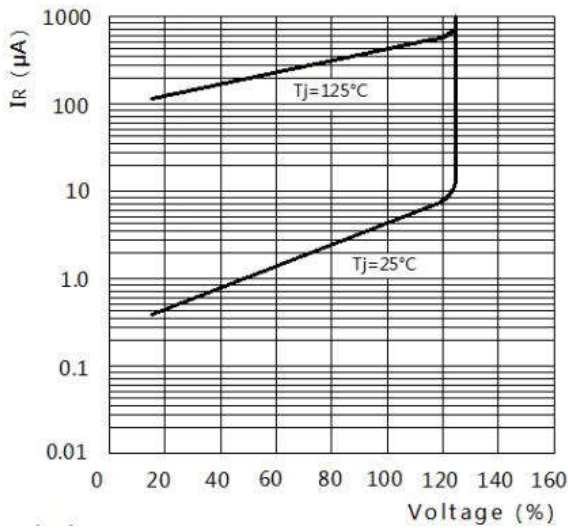
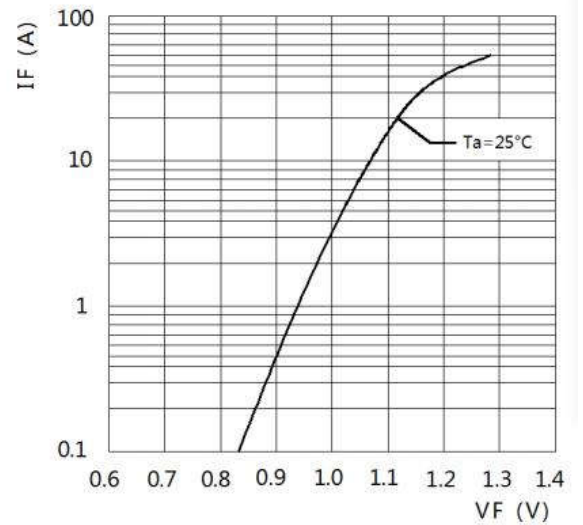


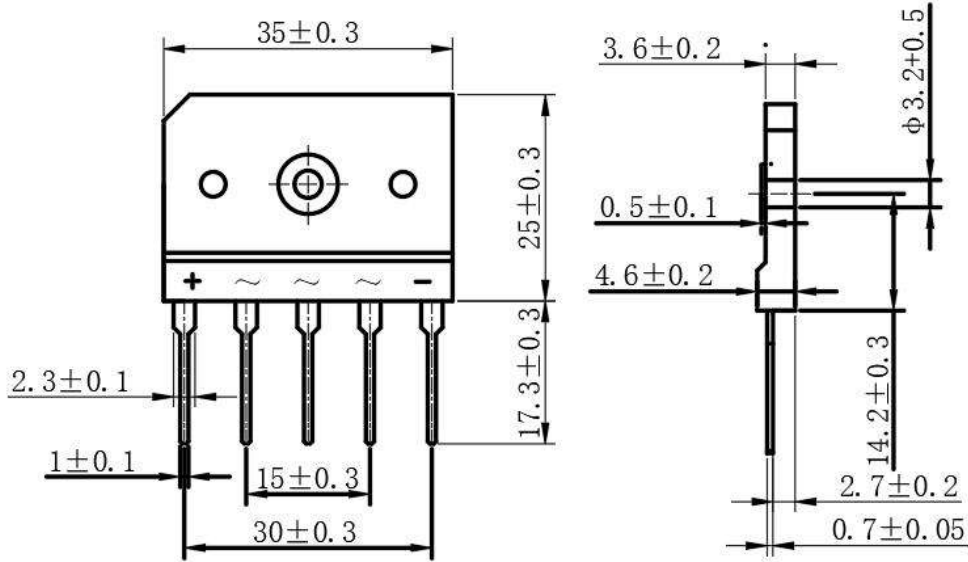
FIG4. Typical Forward Characteristics Per Bridge Element

图 4. 典型正向特性



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

单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)