

# SGBJ3508 THRU SGBJ3516 SGBJ

## 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

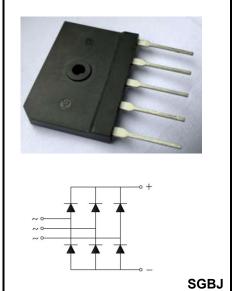
#### **MECHANICAL DATA**

**♦**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 <sub>RRM</sub>	800	1000	1200	1600	v
Average rectified output current	with heatsink, Tc=85℃	I <sub>(AV)</sub>	35			Α	
Peak surge forward current, 8.3ms single half sine- wavesuperimposed on rated load		I <sub>FSM</sub>	450				Α
Rating for fusing,1ms <t<8.3ms, Tj=25 ≿, Rating of per diode</t<8.3ms, 		l <sup>2</sup> t	840				A <sup>2</sup> S
Junction temperature and Storage temperature		T <sub>j</sub> , T <sub>stg</sub>	-55 ~ <b>+</b> 150				°C
Dielectric strength, terminals to case AC 1 minute		V <sub>DS</sub>	2.5				ΚV
Peak Forward Voltage @lr =17.5A		V <sub>F</sub>	1.1				v
Peak Reverse Current VR=VRRM. measurement Rating of per diode	Pulse Tj=25 ℃ Tj=125 ℃	I <sub>R</sub>	5 500		uA		
Junction to ambient thermal resistance,without heatsink		R <sub>θJA</sub>	18			°C/W	
Junction to case thermal resistance, with heatsink		R <sub>eJC</sub>	1.5			°C/W	

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

<sup>(2)</sup> Device mounted on 75mm\*75mm\*1.6mm cu plate heatsink

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## **RATINGS AND CHARACTERISTIC CURVES**

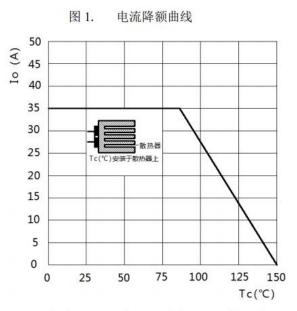
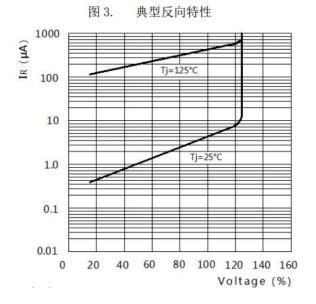


FIG3. Typical Reverse Characteristics Per Bridge Element



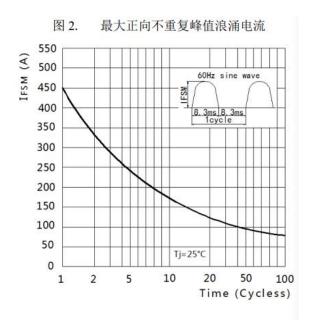
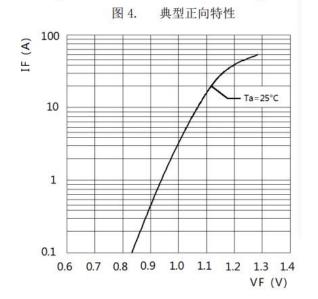
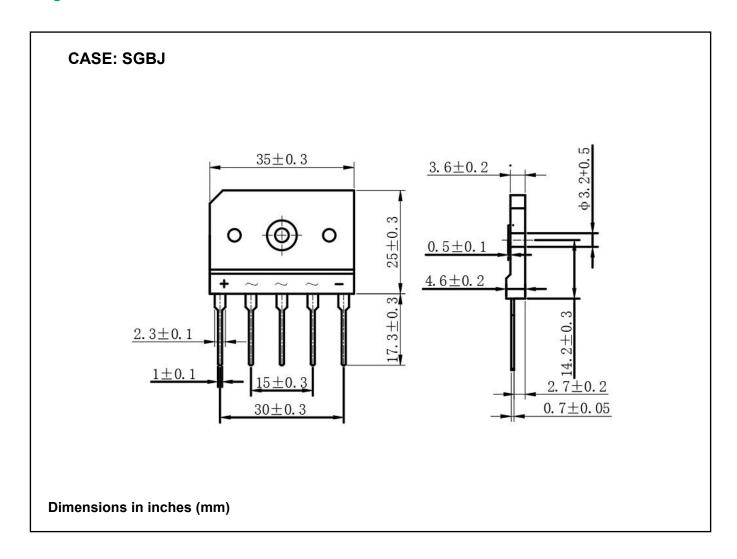


FIG4. Typical Forward Characteristics Per Bridge Eleme





# **Package Outline Dimensions millimeters**



# **Summary of Packing Options**

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