

# GLASS PASSIVATED 3 PHASE BRIDGE RECTIFIERS

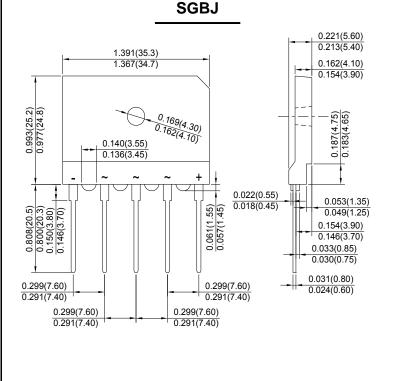
REVERSE VOLTAGE - 800 to 1600 Volts
FORWARD CURRENT - 50 Ampreres

#### **FEATURES**

- Glass passivated chip, high reliability
- ●Low forward voltage drop
- ●Insulation voltage 2500V
- Small size and light weight
- Small thermal resistance, high thermal conductivity, Low temperature rise

## **Applications**

- ●Power supply of DC equipment
- ●Input rectifier for PWM converter
- ■DC motor



Dimensions in inches and (milimeters)

#### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless otherwise specified.

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

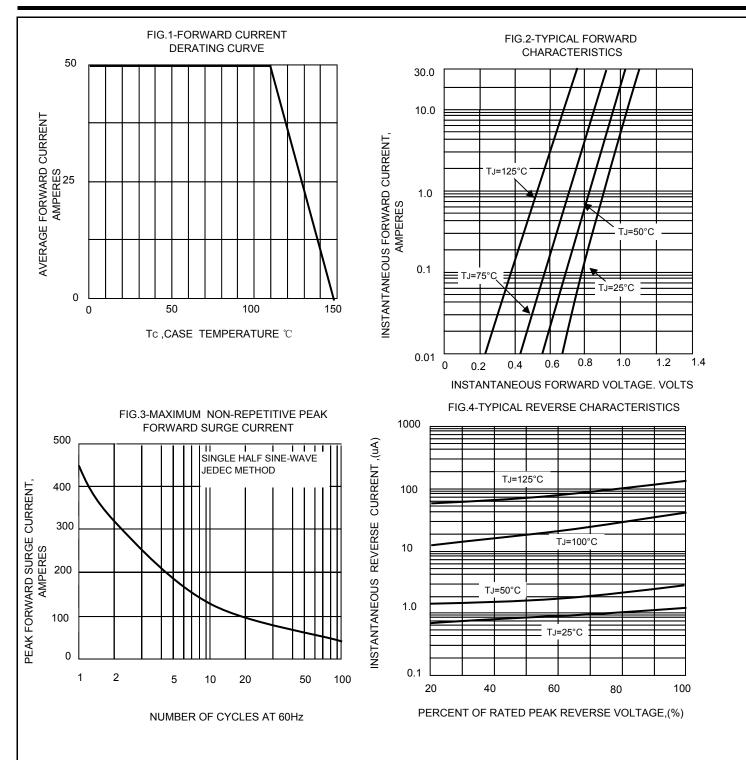
### **VOLTAGE RATINGS**

CHARACTERISTICS	SYMBOL	-08	-10	-12	-16	UNIT
Peak Repetitive Voltage	VRRM	800	1000	1200	1600	V
Peak Non-Repetitive Reverse Voltage	VRSM	900	1100	1300	1700	V
FORWARD CONDUCTION					-	
CHARACTERISTICS	SYMBOL	SGBJ5008	SGBJ5010	SGBJ5012	SGBJ5016	UNIT
Maximum Average Forward	lf(AV)	50				А
Rectified Current @Tc=110 ℃	IF(AV)					
Peak Forward Surge Current t=8.3ms at 60HZ	IFSM	450				Α
I <sup>2</sup> t Rating for fusing	l <sup>2</sup> t	840				A <sup>2</sup> S
Maximum Forward Voltage drop per element at 25 A Peak	VF	1.1				V
Reverse peak current V <sub>R</sub> =V <sub>RRM</sub> @T <sub>J</sub> =25°C	I_	5				μA
V <sub>R</sub> =V <sub>RRM</sub> @TJ=150℃	l <sub>R</sub>	3				mA
RMS Isolation Voltage from Case to Lead	Viso	2500				V
Typical Thermal Resistance (Note1)	Rejc	0.8				°C/W
Mounting torque M3	M <sub>d</sub>	0.8				N.m
Weight	W <sub>t</sub>	10				g
THERMAL CHARACTERISTICS	•					
Operating Temperature Range	TJ	-55 to +150				$^{\circ}\! \mathbb{C}$
Storage Temperature Range	Tstg	-55 to +150				°C

Notes:1.Thermal resistance junction to case.

<sup>2.</sup>The typical data above is for reference only(典型值仅供参考).





The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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