

**Glass Passivated 3 Phase Bridge Rectifiers**  
三相玻璃钝化整流桥

**Reverse Voltage - 800 to 1600Volts**  
**反向电压 800-1600V**  
**Forward Current - 35 Amperes**  
**正向电流 35A**

**Features 特征**

- Low forward voltage drop 正向压降低
- High current capability 通电能力强
- High reliability 信赖性高

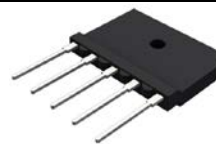
**Mechanical Data 外观信息**

- Case: Epoxy case with heat sink  
封装: 环氧树脂加装散热片结构
- Polarity: Symbol marked on body 极性: 标志在产品的本体上
- Mounting position: 安装位置:
- Bolt pass through the mounting hole of body then fix to heat sink  
螺丝穿过安装孔固定于散热片上
- Maximum Mounting torque (M4)<sup>1</sup>: 0.8 N.m 最大的安装扭矩(M4)<sup>1</sup>: 0.8N.m

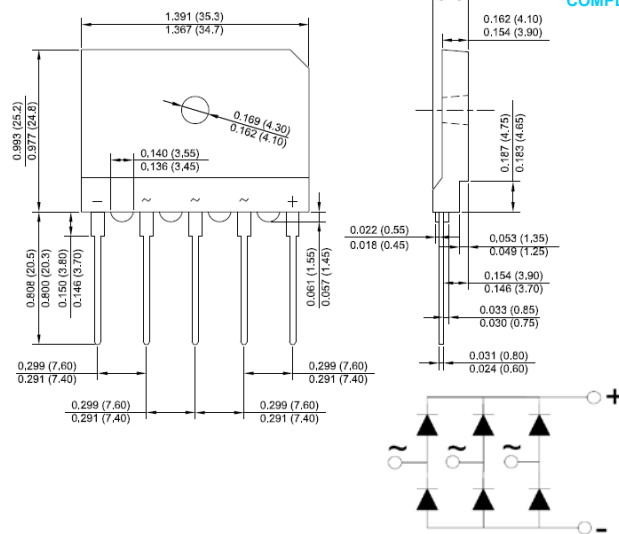
**Applications 应用**

- For use in high power supply inverters, servo motor and welding machine applications  
用于大功率电源, 伺服电机和电焊机等应用

**SGBJ**



**RoHS COMPLIANT**



Package Outline Dimensions in Inches (Millimeters)  
封装外观尺寸单位英寸(毫米)

**Maximum Ratings and Electrical Characteristics 最大额定值及电气特性**

Rating at 25°C ambient temperature unless otherwise specified. 环境温度25°C, 除非特别说明。  
Single phase, half wave, 60Hz, resistive or inductive load. 单相半波, 60Hz, 阻性或感性负载。  
For capacitive load, derate current by 20%. 对于电容性负载, 降低20%的额定电流。

Characteristics 特性	Symbol 符号	SGBJ35 -08	SGBJ35 -10	SGBJ35 -12	SGBJ35 -16	Unit 单位
Maximum Repetitive Peak Reverse Voltage 最大重复峰值反向电压	V <sub>RRM</sub>	800	1000	1200	1600	V
Maximum RMS Voltage 最大有效反向电压	V <sub>RMS</sub>	560	700	840	1120	V
Maximum DC Blocking Voltage 最大直流阻断电压	V <sub>DC</sub>	800	1000	1200	1600	V
Peak Non-Repetitive Reverse Voltage 不重复的反向峰值电压	V <sub>RSM</sub>	900	1100	1300	1700	V
Maximum Average Forward Rectified Current @T <sub>c</sub> =110 °C 最大正向平均整流电流	I <sub>(AV)</sub>	35				A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method) 8.3mS单一正弦半波叠加在额定负载上的浪涌能力 (JEDEC方法)	I <sub>FSM</sub>	400				A
I <sup>2</sup> t Rating for Fusing (t<8.3mS) 熔断额定值 (t<8.3mS)	I <sup>2</sup> t	664				A <sup>2</sup> S
Peak Forward Voltage per Diode at 17.5A DC 单个二极管在17.5A电流下的正向峰值电压	V <sub>F</sub>	1.1				V
Maximum DC Reverse Current at Rated @T <sub>J</sub> =25°C DC Blocking Voltage per Diode @T <sub>J</sub> =150°C 单个二极管在额定直流电压下的最大反向直流电流	I <sub>R</sub>	5				μA
Typical Thermal Resistance to Case 结到壳的典型热阻值	R <sub>θJC</sub>	0.8				°C/W
RMS Isolation Voltage from Case to Lead 从壳到引线的有效绝缘电压	V <sub>ISO</sub>	2500				V
Operating Junction Temperature Range 结温工作范围	T <sub>J</sub>	-55 to +150				°C
Storage Temperature Range 储存温度范围	T <sub>STG</sub>	-55 to +125				°C

Notes: 1. Surface roughness of Heat sink <0.05mm 散热器表面平整度<0.05mm  
2. The typical data above is for reference only(典型值仅供参考).

Fig. 1 - Forward Current Derating Curve

图1 正向电流降额曲线

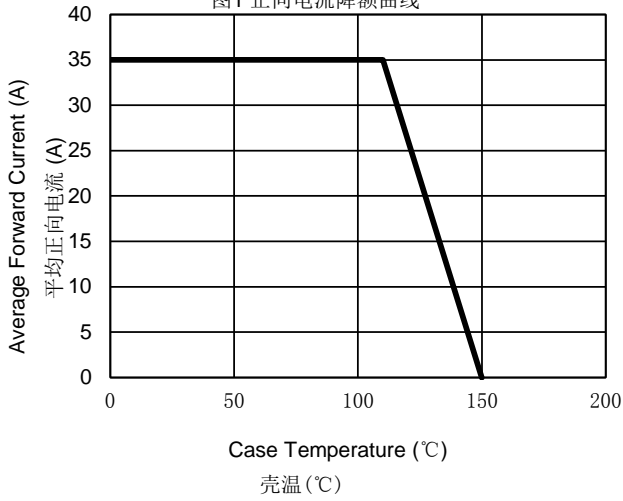


Fig. 2 - Maximum Non-Repetitive Surge Current

图2 最大不重复正向浪涌曲线

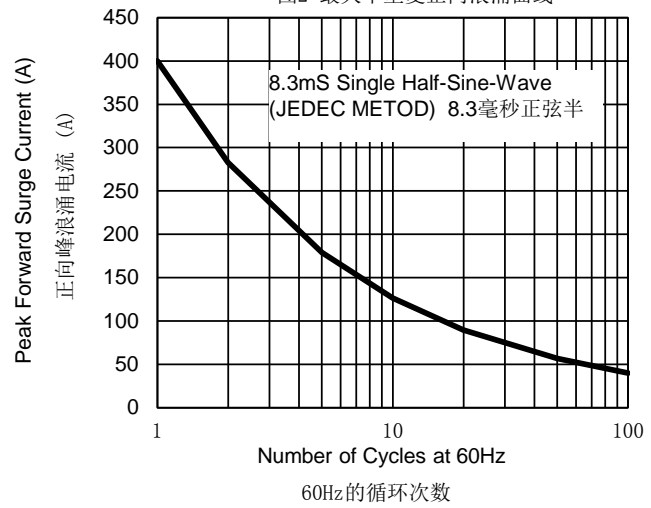


Fig. 3 - Typical Reverse Characteristics

图3 典型的反向特性

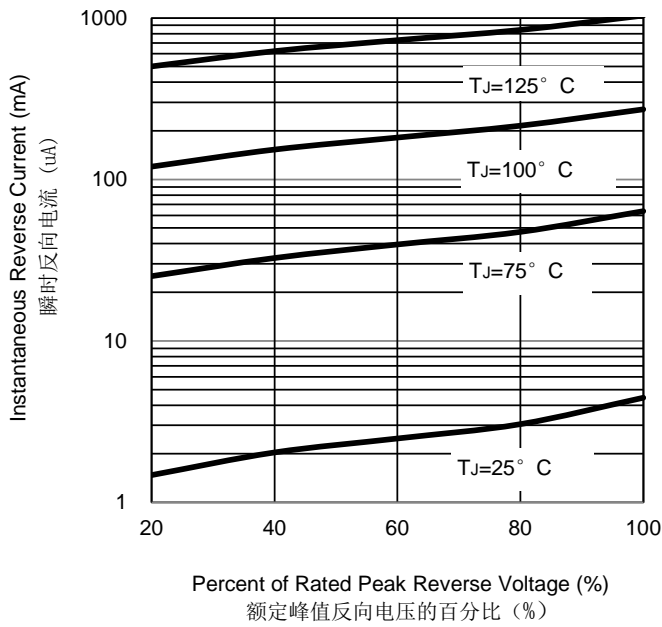
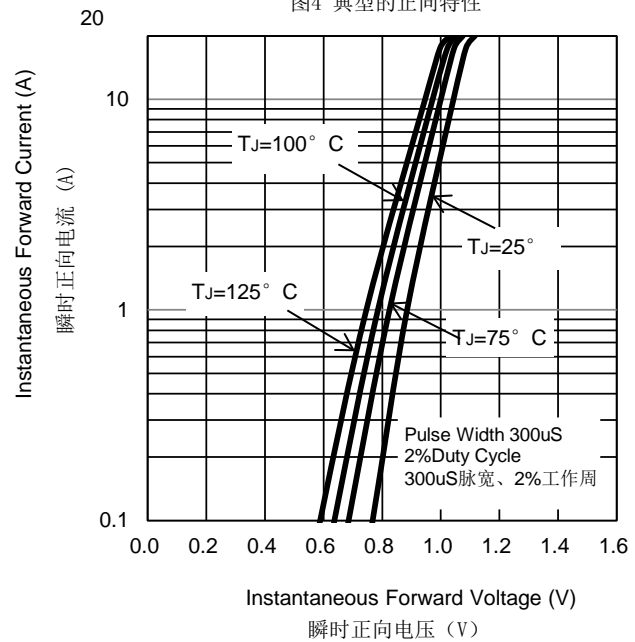


Fig. 4 - Typical Forward Characteristics

图4 典型的正向特性



The curve above is for reference only. 曲线图仅供参考。

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