

## 高电流玻璃钝单相桥式整流器

## HIGH CURRENT GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIER

## 特 点

## FEATURES

The plastic package has Underwriters Laboratory flammability recognition 94V-0

塑封外壳已经 UL 可燃性认证 94V\_0

Integrally molded heatsink provide very low thermal resistance for maximum heat dissipation

合并塑封的散热片，热阻抗低，散热量大

Universal 3\_way terminals; snap\_on, wire wrap\_around, or P.C. Board mounting

通用 3\_路端子；搭锁，引线缠绕或 PC 板安装

Surge overload ratings to 350 Amperes

浪涌过载额定值达 350 安培

Glass passivated chip junctions

玻璃钝芯片结

High temperature soldering guaranteed:

260°C/10 seconds at 5lbs., (2.3kg)tension

高温焊接保证：260°C/10 秒，拉力，2.3kg。

## 机械数据

## MECHANICAL DATA

Case: Molded plastic with heatsink integrally

Mounted in the bridge encapsulation

外壳：塑料与散热片一起封在桥壳内

Terminals: Nickelplated. 0.25 " (6.35mm) Faston lugs

端子：镀镍 0.25 " (6.35mm) 接线端子

Mounting position: Bolt down on heat\_sink with

Silicone thermal compound between bridge and

Mounting surface for maximum heat transfer

efficiency. with number 5 screw

安装位置：用 M5 螺丝固定在散热片上，桥和安

装表面之间填充硅热混合物以达到最佳的散热

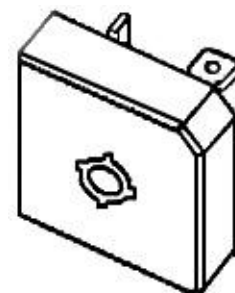
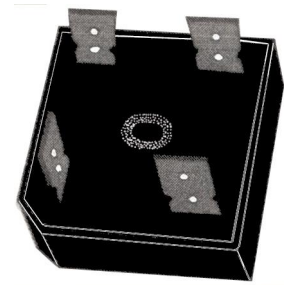
效果

polarity: polarity symbols molded on body

极性：极性符号铸在管体上

Weight: 19.3 grams

重量：19.3 克



SVB-4

## 最大额定值

### Absolute MAX rating

| Item<br>项 目                                      | Symbol<br>符 号    | Conditions<br>条 件                                                               | Ratings<br>额定值 | Unit<br>单 位 |
|--------------------------------------------------|------------------|---------------------------------------------------------------------------------|----------------|-------------|
| Storage temperature<br>贮存温度                      | Tstg             |                                                                                 | -40~150        | °C          |
| Operating junction<br>Temperature<br>结 温         | T <sub>J</sub>   |                                                                                 | 150            | °C          |
| Max reverse voltage<br>最大反向电压                    | V <sub>RM</sub>  |                                                                                 |                |             |
| S35VB20                                          |                  |                                                                                 | 200            | V           |
| S35VB40                                          |                  |                                                                                 | 400            | V           |
| S35VB60                                          |                  |                                                                                 | 600            | V           |
| S35VB80                                          |                  |                                                                                 | 800            | V           |
| S35VB100                                         |                  |                                                                                 | 1000           | V           |
| Average rectified<br>forward current<br>平均正向整流电流 | I <sub>o</sub>   | 50Hz Sine wave resistance load<br>T <sub>c</sub> =85°C<br>50Hz 正弦波电阻负载          | 35             | A           |
| Peak Surge forward<br>Current<br>浪涌电流            | I <sub>FSM</sub> | Non-repetitive 50Hz<br>10ms Sine wave T <sub>j</sub> =25°C<br>不重复 50Hz 10ms 正弦波 | 350            | A           |
| Dielectric strength<br>绝缘强度                      | V <sub>dia</sub> | Terminals to case AC 1 minute<br>端子与管壳间 AC 1 分钟                                 | 2              | KV          |

## 电性特征

### Electrical characteristics TA=25°C

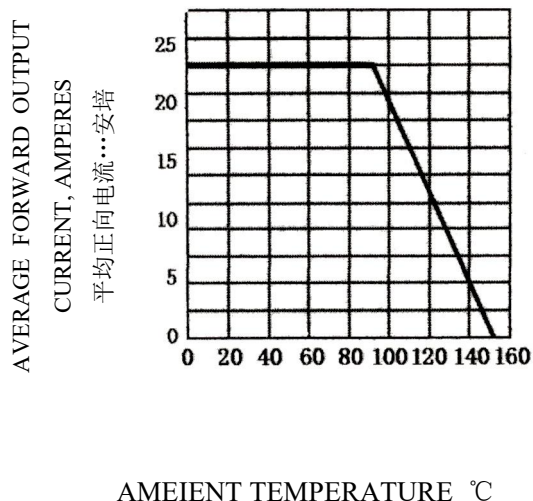
|                           |                 |                                 |          |      |
|---------------------------|-----------------|---------------------------------|----------|------|
| Forward Voltage<br>正向电压   | V <sub>F</sub>  | I <sub>F</sub> =17.5A           | Max 1.05 | V    |
| Reverse current<br>反向漏电流  | I <sub>R</sub>  | V <sub>R</sub> =V <sub>RM</sub> | Max 10   | μ A  |
| Thermal reslstance<br>热 阻 | Q <sub>JC</sub> | Junction to Case<br>结点管壳间       | Max 1.5  | °C/W |

## 特性曲线

RATONG and characteristic

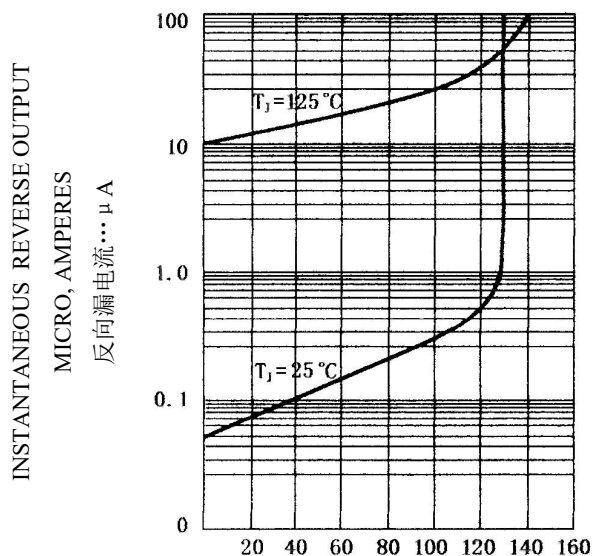
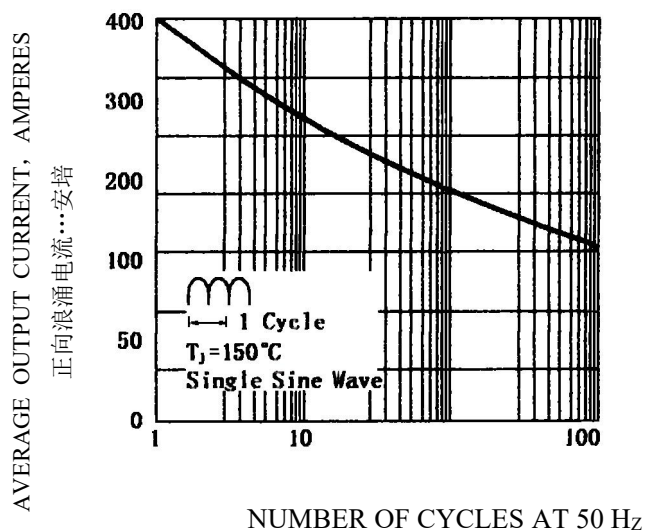
FIG.1 DERATING CURVE FOR  
OUTPUT RECTIFIED CURRENT

电流降额曲线



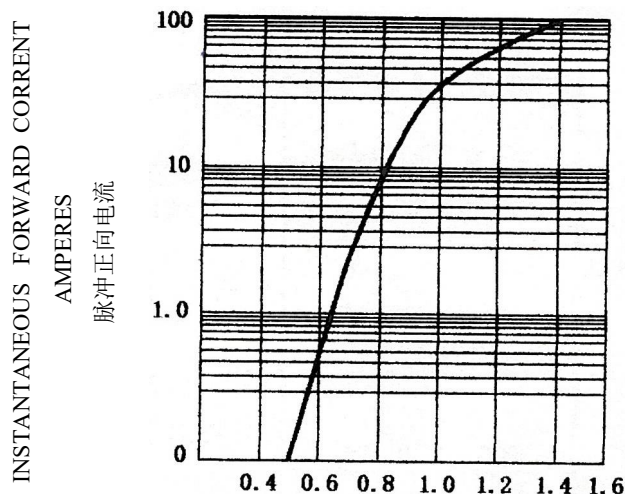
AMBIENT TEMPERATURE °C

环境温度°C

FIG.4 TYPICAL REVERSE  
CHARACTERISTICS  
PER BRIDGE ELEMENT  
典型反向特性PERCENT OF RATED PEAK  
REVERSE VOLTAGE %  
反向击穿电压额定值百分数%FIG.2 MAXIMUM NON-REPETITIVE  
PEAK FORWARD SURGE CURRENT  
PER BRIDGE ELEMENT  
最大正向不重复峰浪涌电流

NUMBER OF CYCLES AT 50 Hz

50Hz 频数

FIG.3 TYPICAL REVERSE  
CHARACTERISTICS  
PER BRIDGE ELEMENT  
典型正向特性FORWARD VOLTAGE, VOLTS  
正向电压

## 外形尺寸 Outline dimensions

