



S35VB10 THRU S35VB100

桥式整流器 Bridge Rectifier

■特征 Features

- I_o 35A
- V_{RRM} 100V-1000V
- 玻璃钝化芯片
Glass passivated chip
- 耐正向浪涌电流能力高
High surge forward current capability

■用途 Applications

- 作一般电源单相桥式整流用
General purpose 1 phase Bridge rectifier applications

■极限值（绝对最大额定值）

Limiting Values (Absolute Maximum Rating)

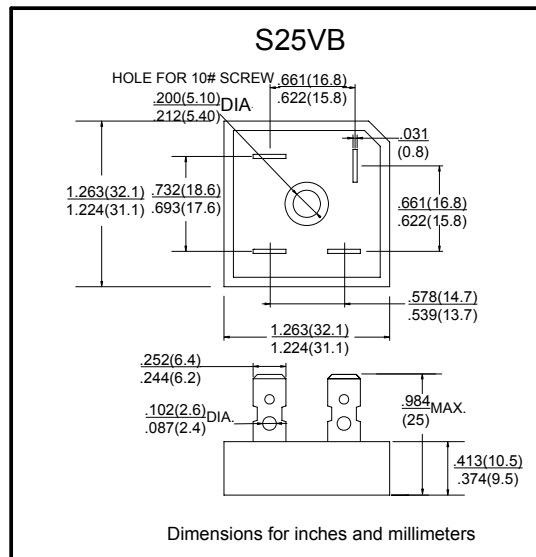
| 参数名称 Item | 符号 Symbol | 单位 Unit | 条件 Conditions | S35VB | | | | | |
|--|--------------|----------------------|--|--|-----|-----|-----|-----|------|
| | | | | 10 | 20 | 40 | 60 | 80 | 100 |
| 反向重复峰值电压 Repetitive Peak Reverse Voltage | V_{RRM} | V | | 100 | 200 | 400 | 600 | 800 | 1000 |
| 平均整流输出电流 Average Rectified Output Current | I_o | A | 60Hz正弦波, 电阻负载 60Hz sine wave, R-load | 用散热器 $T_c=85^\circ\text{C}$ With heat-sink $T_c=85^\circ\text{C}$ | | | | | |
| | | | | 无散热器 $T_a=40^\circ\text{C}$ Without heatsink $T_a=40^\circ\text{C}$ | | | | | |
| 正向（不重复）浪涌电流 Surge(Non-repetitive) Forward Current | I_{FSM} | A | 60Hz正弦波, 一个周期, $T_a=25^\circ\text{C}$ 60Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$ | 450 | | | | | |
| 正向浪涌电流的平方对电流浪涌持续时间的积分值 Current Squared Time | I^2t | A^2S | $1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$, 单个二极管 $1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$, Rating of per diode | 840 | | | | | |
| 存储温度 Storage Temperature | T_{stg} | $^\circ\text{C}$ | | -40 ~ +150 | | | | | |
| 结温 Junction Temperature | T_j | $^\circ\text{C}$ | | -40 ~ +150 | | | | | |
| 绝缘耐压 Dielectric Strength | V_{dis} | KV | 端子与外壳之间外加交流电, 一分钟 Terminals to case, AC 1 minute | 2.5 | | | | | |

■电特性（ $T_a=25^\circ\text{C}$ 除非另有规定）

Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

| 参数名称 Item | 符号 Symbol | 单位 Unit | 测试条件 Test Condition | 最大值 Max |
|--------------------------------|------------------|---------------------------|---|------------|
| 正向峰值电压 Peak Forward Voltage | V_{FM} | V | $I_{FM}=17.5\text{A}$, 脉冲测试, 单个二极管的额定值 $I_{FM}=17.5\text{A}$, Pulse measurement, Rating of per | 1.05 |
| 反向峰值电流 Peak Reverse Current | I_{RRM} | μA | $V_{RM}=V_{RRM}$, 脉冲测试, 单个二极管的额定值 $V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode | 10 |
| 热阻 Thermal Resistance | $R_{\theta J-C}$ | $^\circ\text{C}/\text{W}$ | 结和管壳之间 Between junction and case | 1.0 |

■外形尺寸和印记 Outline Dimensions and Mark



■特性曲线（典型） Characteristics(Typical)

图1: I_o - T_a 曲线
FIG1: I_o - T_a Curve

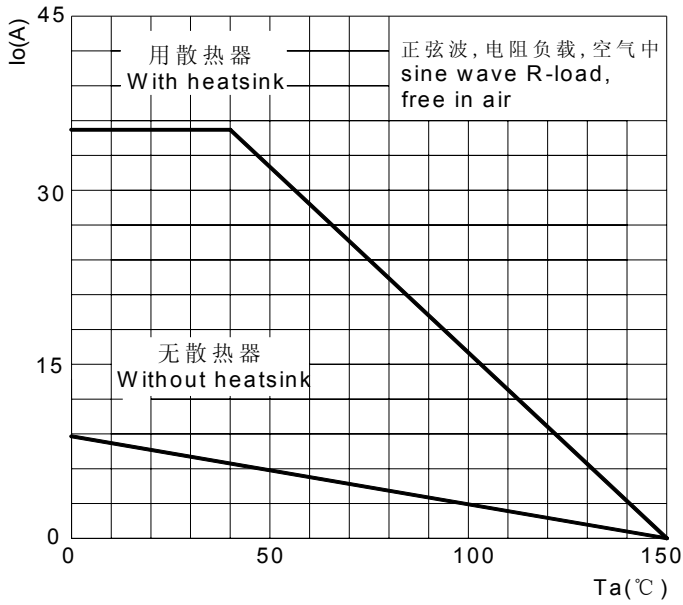


图2: 耐正向浪涌电流曲线
FIG2:Surge Forward Current Capadility

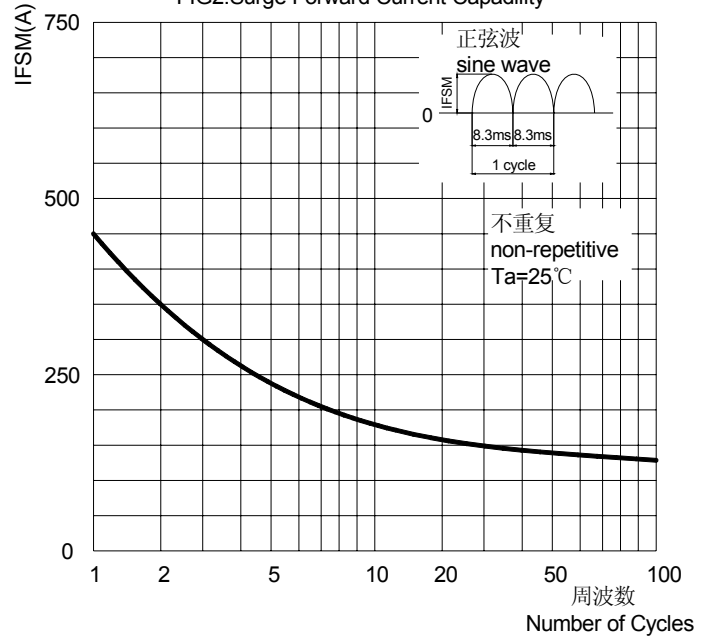


图3: 正向电压曲线
FIG3:Instantaneous Forward Voltage

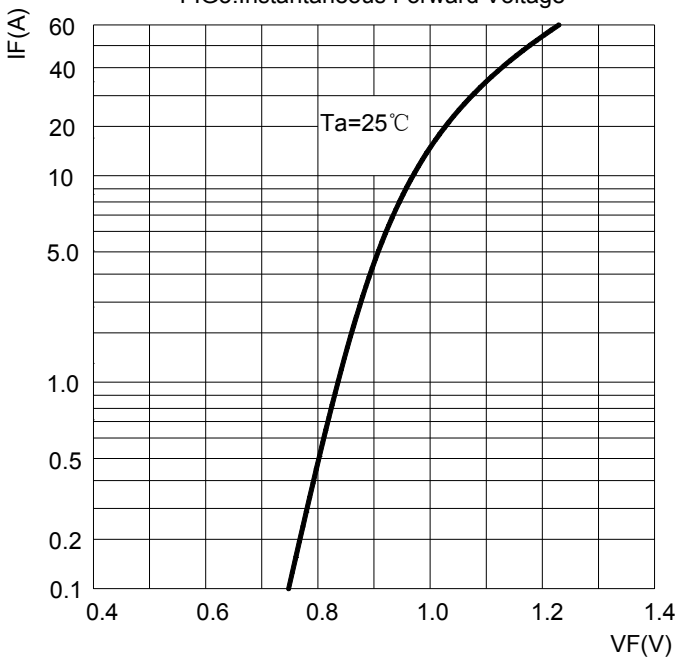


图4: 反向电流曲线
FIG4:Typical Reverse Characteristics

