

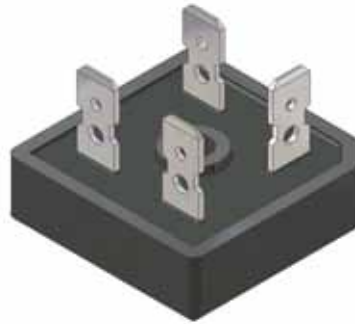
# S15VB10 Thru S15VB100

**High Current Glass Passivated Molding Single-Phase Bridge Rectifier**

**Reverse Voltage 100 to 1000V Forward Current 15.0 A**

## FEATURES

- Plastic Package has Underwriters Laboratory Flammability Classification 94V-0
- High current capacity with small package
- Glass passivated chip junctions
- Superior thermal conductivity
- High IFSM



## 1. Maximum & Thermal Characteristics Ratings at 25 °C ambient temperature unless otherwise specified.

| Item   | Symbol           | S15VB10                                  | S15VB20 | S15VB40 | S15VB60 | S15VB80 | S15VB100 | Unit               |
|--|------------------|--|---------|---------|---------|---------|----------|--------------------|
| Maximum repetitive voltage   | VRM              | 100                                      | 200     | 400     | 600     | 800     | 1000     | V                  |
| Maximum RMS Voltage  | VRMS             | 70                                       | 140     | 280     | 420     | 560     | 700      | V                  |
| Maximum DC Blocking Voltage  | VDC              | 100                                      | 200     | 400     | 600     | 800     | 1000     | V                  |
| Maximum DC reverse current TA=25   | IR               | 5  |         |         |         |         |          | μA                 |
| at rated DC blocking voltage TA=125  |                  | 500                                      |         |         |         |         |          |                    |
| Average rectified forward current 60Hz sine wave, R-load with heatsink Tc=97       | Io               | 15                                       |         |         |         |         |          | A                  |
| Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load | IFSM             | 250                                      |         |         |         |         |          | A                  |
| Rating for Fusing (t<8.3ms)  | I <sup>2</sup> t | 300                                      |         |         |         |         |          | A <sup>2</sup> sec |
| Dielectric strength Terminals to case, AC 1 minute Current 1mA                     | Vdia             | 2.0                                      |         |         |         |         |          | KV                 |
| Maximum instantaneous forward voltage at 12.5A                                     | VF               | 1.05                                     |         |         |         |         |          | V                  |
| Operating junction temperature   | Tj               | -40~150                                  |         |         |         |         |          |                    |
| Storage temperature  | Tstg             | -40~150                                  |         |         |         |         |          |                    |
| Mounting torque  | Tor              | Rating Torque : 1.2 ( Suggests 0.6~1.0 ) |         |         |         |         |          | N.m                |

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## 2. Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 Derating Curve

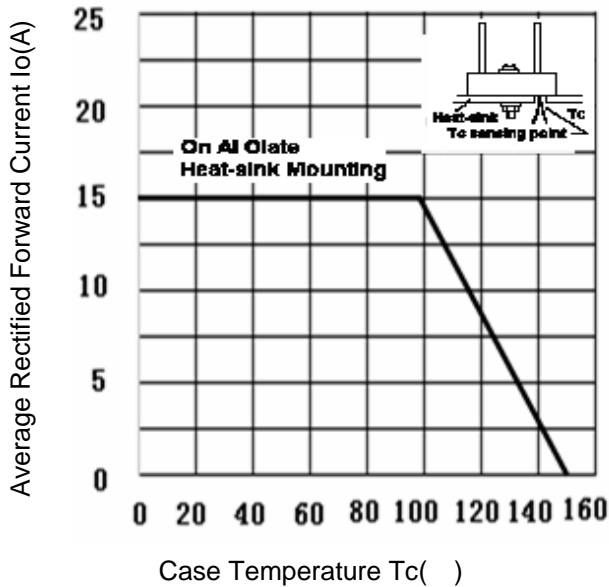


Fig.2 Typical Reverse Characteristics

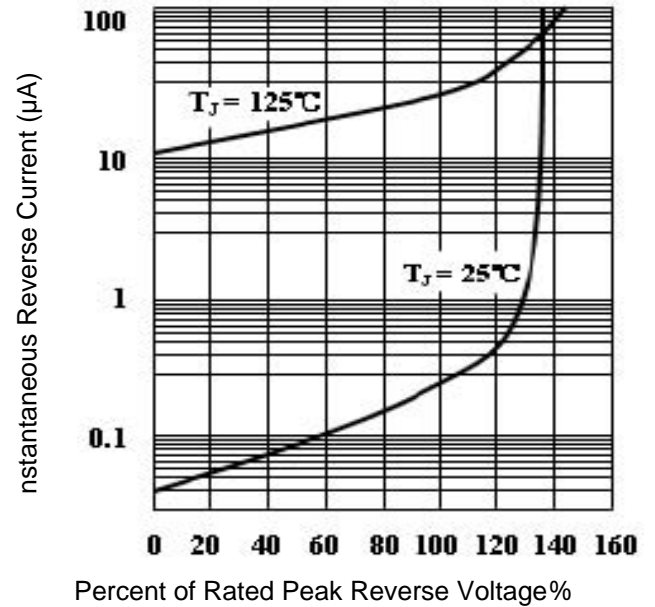


Fig.3 Forward Voltage

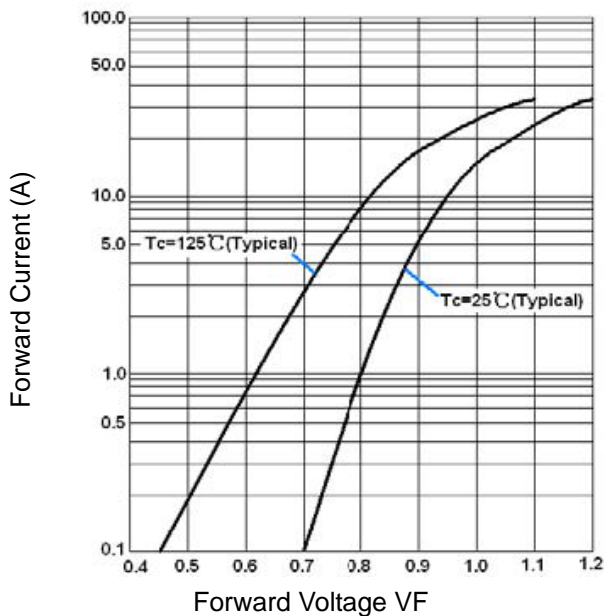
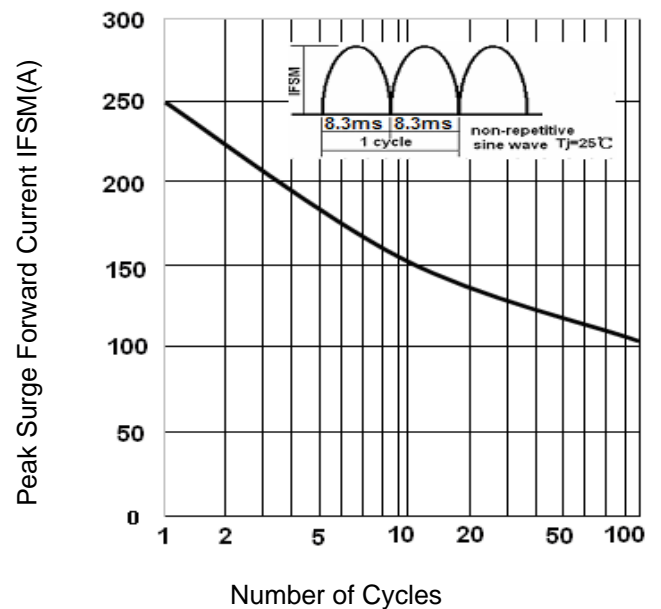
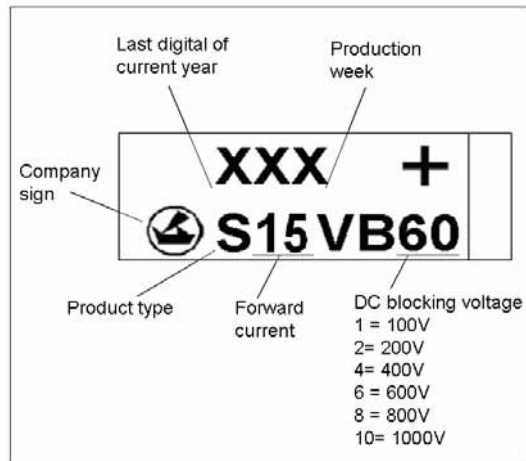


Fig.4 Peak Surge Forward Capability



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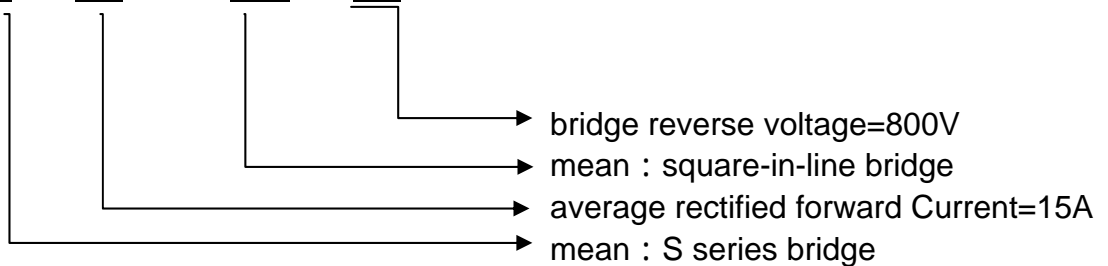
## 3. Marking Identification



**Note :**

生产日期码包含4位数字，例如“1010”，前两个数字“10”表示为2010年，另外二个数字“10”是指第10周，即表示该产品为2010年10周生产。

型号：S 15 VB 80



## 4. Dimension

