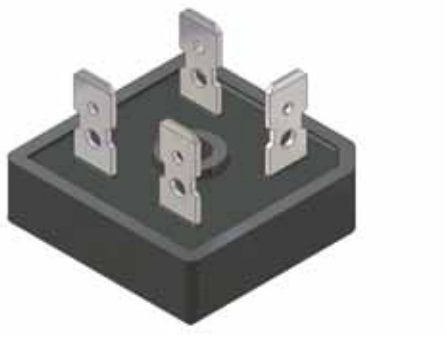
S15VB10 Thru S15VB100

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℃ 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 recified 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^2t	300						A^2sec
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

S15VB10 Thru S15VB100

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

Fig. 1 Derating Curve

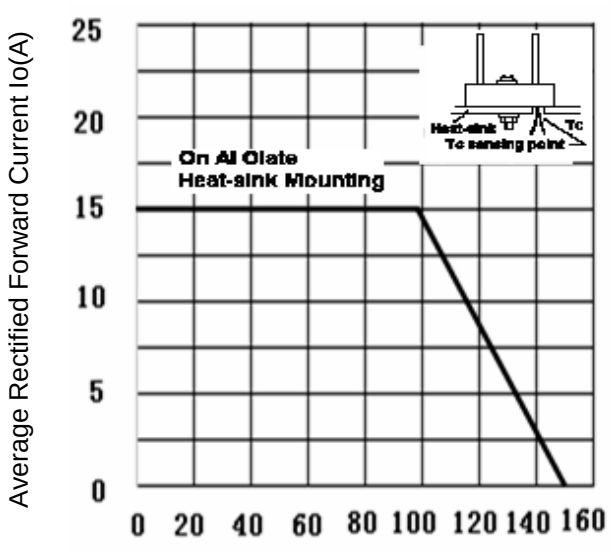


Fig.2 Typical Reverse Characteristics

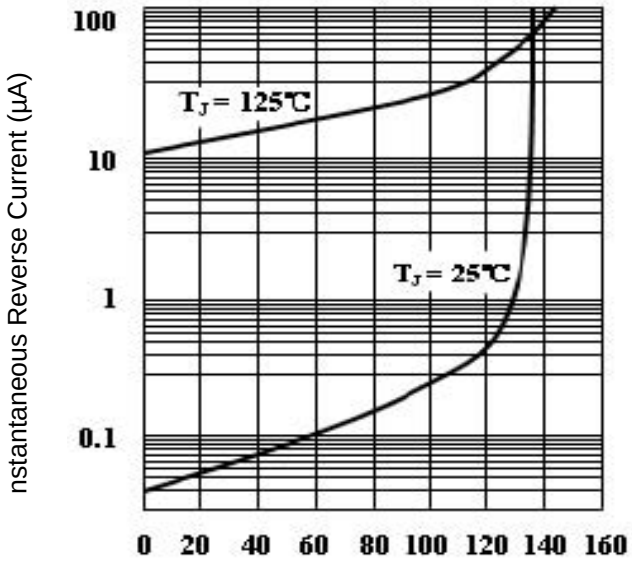


Fig.3 Forward Voltage

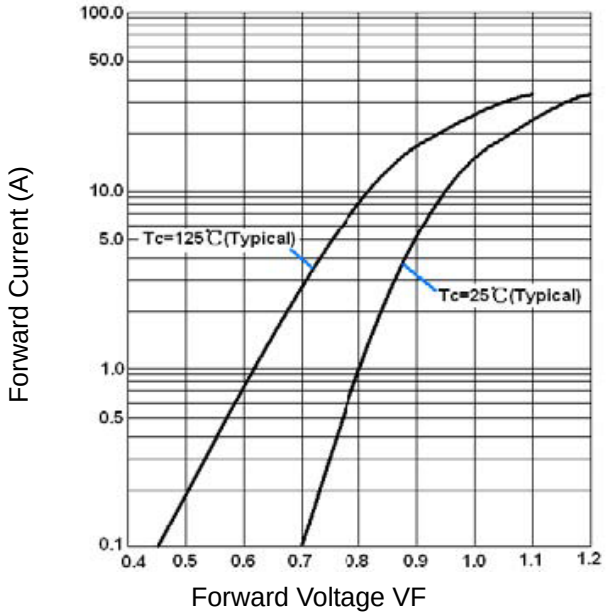
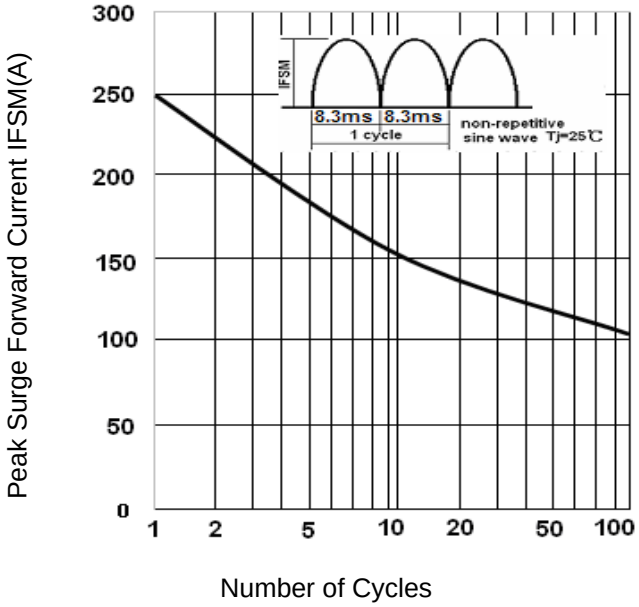
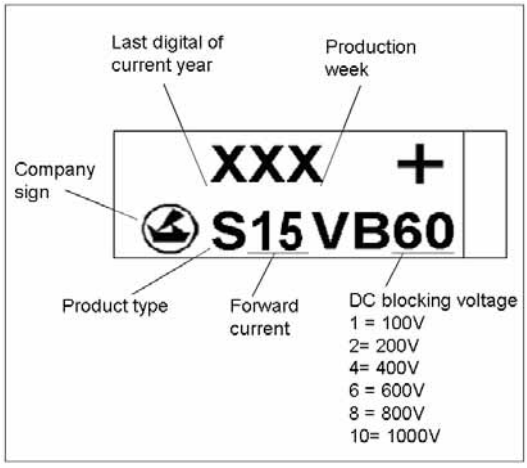


Fig.4 Peak Surge Forward Capability



S15VB10 Thru S15VB100

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**

- 80 → bridge reverse voltage=800V
- VB → mean：square-in-line bridge
- 15 → average rectified forward Current=15A
- S → mean：S series bridge

4. Dimension

