# S3ABF THRU S3MBF SMBF

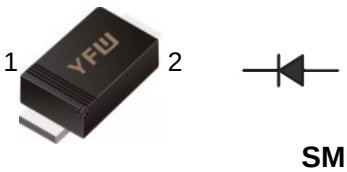
**Surface Mount General Purpose Silicon Rectifiers**

**Reverse Voltage - 50 to 1000 V**

**Forward Current - 3 A**

## Pinning

| 1.Cathode | 2.Anode |
|---|---|




**SMBF**

## FEATURES

For surface mounted applications
Low profile package
Glass Passivated Chip Junction
Ideal for automated placement

Lead free in comply with EU RoHS 2011/65/EU directives

## MECHANICAL DATA

Case: SMBF
Terminals: Solderable per MIL-STD-750, Method 2026
Approx. Weight: 57mg / 0.002oz

**YFW S3AB**
**YFW S3BB**
**YFW S3DB**
**YFW S3GB**
**YFW S3JB**
**YFW S3KB**
**YFW S3MB**

### Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

| Parameter | Symbols | S3ABF | S3BBF | S3DBF | S3GBF | S3JBF | S3KBF | S3MBF | Units |
|---|---|---|---|---|---|---|---|---|---|
| Maximum Repetitive Peak Reverse Voltage | $V_{RRM}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS voltage | $V_{RMS}$ | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | $V_{DC}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current at $T_c$ = 125 °C | $I_{F(AV)}$ | | | | 3 | | | | A |
| Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load | $I_{FSM}$ | | | | 100 | | | | A |

3
Maximum Ins -51 V 0.186 -29 624 TD [Maximum] TJEMC /P /MCIDCIDCIDCIDCIDCIDCIDCeoC /PuCID 389 BDC 2.22240 TD [-)40.2] TJEMC /P /MCID 9 >BDC 1541 2
Maximum >> BTD [1(t)] TJ EMC /P <</MCID 354>> 44[( )] TJ EM1/P <</MCIR <38[<</MCIV <38[<</MCIr <38[sEMC /P C /P
Maximum Rect 2 TJEMC /P /MCID 402 >BDC 21 31 125 0 T4viceGray cs 0 scn 1 i /GS1 gs 40 TD [CurrEMC /P 66 >BDC 5 777 -1 TD [TJ/

**Fig.1 Forward Current Derating Curve**

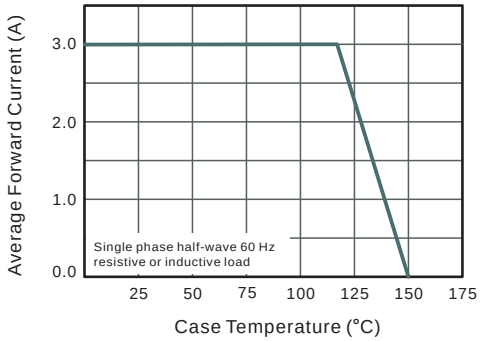



**Fig.2 Typical Reverse Characteristics**

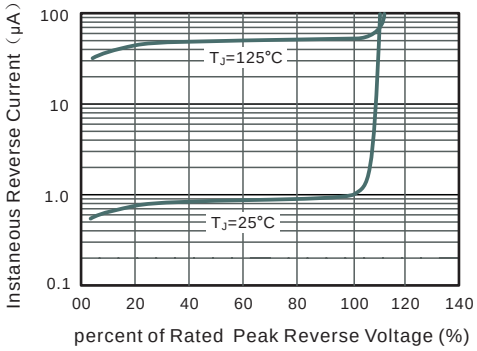



**Fig.3 Typical Forward Characteristic**

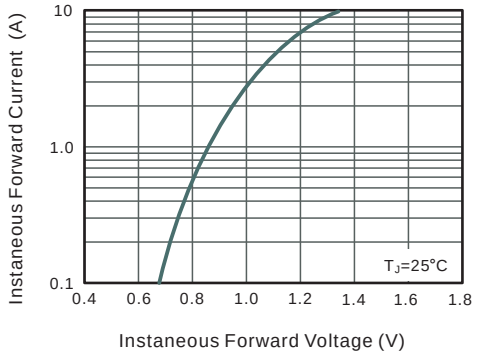



**Fig.4 Typical Junction Capacitance**

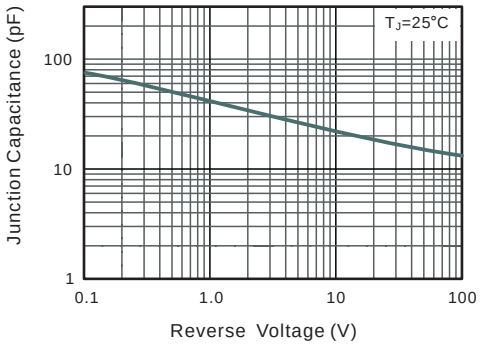
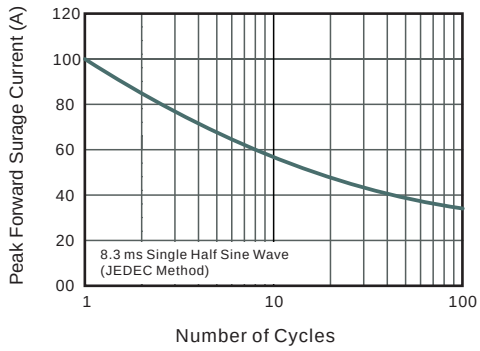



**Fig.6 Maximum Non-Repetitive Peak Forward Surage Current**



## Marking Diagram

## Ordering information

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