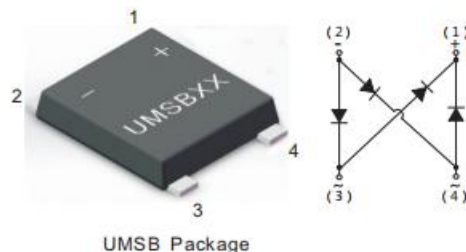


## Bridge Rectifier Diode 整流桥

### ■ Features 特点

Glass passivated chip junction 玻璃钝化结  
High surge current capability 高浪涌电流能力  
Peak Soak Temperature 260℃ 峰值浸润温度 260 度  
Package 封装: UMSB



### ■ Maximum Rating 最大额定值

( $T_A=25^{\circ}\text{C}$  unless otherwise noted 如无特殊说明, 温度为  $25^{\circ}\text{C}$ )

| Characteristic 特性参数                      | Symbol 符号       | FMSB30A                                               | FMSB30B | FMSB30D | FMSB30G | FMSB30J | FMSB30K | FMSB30M | Unit 单位                     |
|------------------------------------------|-----------------|-------------------------------------------------------|---------|---------|---------|---------|---------|---------|-----------------------------|
| Marking Code 字标                          |                 | FMB30A                                                | FMB30B  | FMB30D  | FMB30G  | FMB30J  | FMB30K  | FMB30M  |                             |
| Peak Reverse Voltage 反向峰值电压              | $V_{RRM}$       | 50                                                    | 100     | 200     | 400     | 600     | 800     | 1000    | V                           |
| DC Reverse Voltage 直流反向电压                | $V_{R(DC)}$     | 50                                                    | 100     | 200     | 400     | 600     | 800     | 1000    | V                           |
| RMS Reverse Voltage 反向电压均方根值             | $V_{R(RMS)}$    | 35                                                    | 70      | 140     | 280     | 420     | 560     | 700     | V                           |
| Forward Rectified Current 正向整流电流         | $I_F$           | 3                                                     |         |         |         |         |         |         | A                           |
| Peak Surge Current 峰值浪涌电流                | $I_{FSM}$       | 100                                                   |         |         |         |         |         |         | A                           |
| Rating for Fusing 熔断值 (1ms < t < 8.3ms)  | $I^2t$          | 41.5                                                  |         |         |         |         |         |         | A <sup>2</sup> S            |
| Thermal Resistance J-A 结到环境热阻            | $R_{\theta JA}$ | 30                                                    |         |         |         |         |         |         | $^{\circ}\text{C}/\text{W}$ |
| Junction and Storage Temperature 结温和储藏温度 | $T_J, T_{stg}$  | 150 $^{\circ}\text{C}$ , -65to+150 $^{\circ}\text{C}$ |         |         |         |         |         |         |                             |

### ■ Electrical Characteristics 电特性

( $T_A=25^{\circ}\text{C}$  unless otherwise noted 如无特殊说明, 温度为  $25^{\circ}\text{C}$ )

| Characteristic 特性参数                                                            | Symbol 符号 | Min 最小值 | Typ 典型值 | Max 最大值  | Unit 单位       | Condition 条件                                              |
|--------------------------------------------------------------------------------|-----------|---------|---------|----------|---------------|-----------------------------------------------------------|
| Forward Voltage 正向电压                                                           | $V_F$     |         | 1.3     |          | V             | $I_F=3\text{A}$                                           |
| Reverse Current ( $T_A=25^{\circ}\text{C}$ ) 反向电流( $T_A=100^{\circ}\text{C}$ ) | $I_R$     |         |         | 5<br>200 | $\mu\text{A}$ | $V_R=V_{RRM}$                                             |
| Diode Capacitance 二极管电容                                                        | $C_D$     |         | 40      |          | pF            | $V_R=4\text{V}, f=1\text{MHz}$                            |
| Reverse Recovery Time 反向恢复时间                                                   | $T_{rr}$  |         |         | 500      | nS            | $I_F=0.5\text{A}, I_R=1\text{A}$<br>$I_{rr}=0.25\text{A}$ |

## ■ Typical Characteristic Curve 典型特性曲线

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

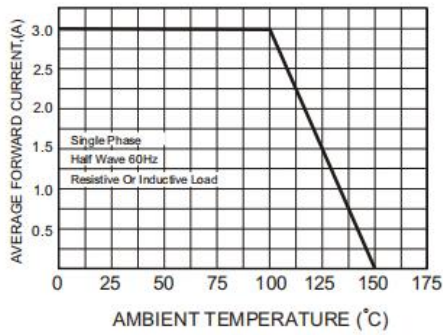


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

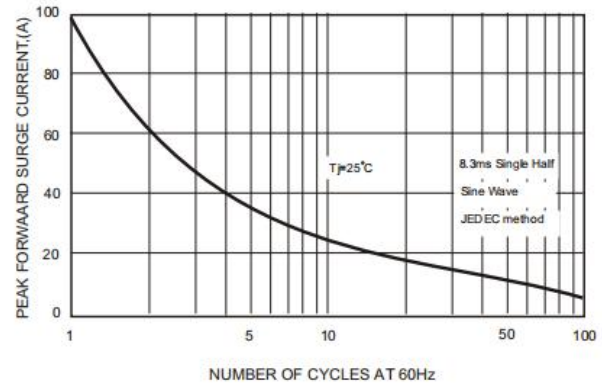


FIG.3-TYPICAL FORWARD CHARACTERISTICS

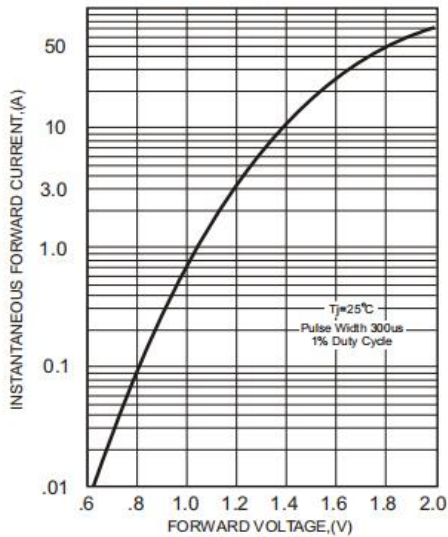


FIG.4-TYPICAL REVERSE CHARACTERISTICS

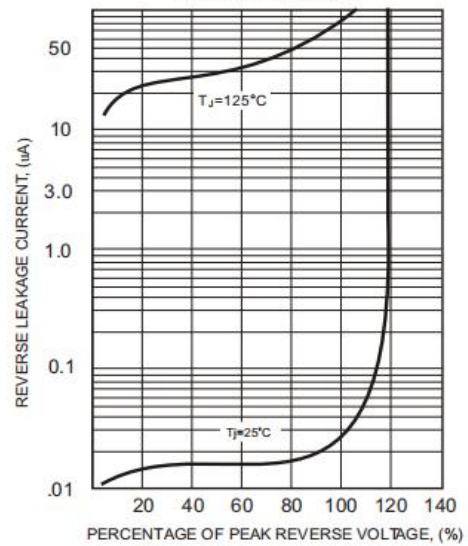
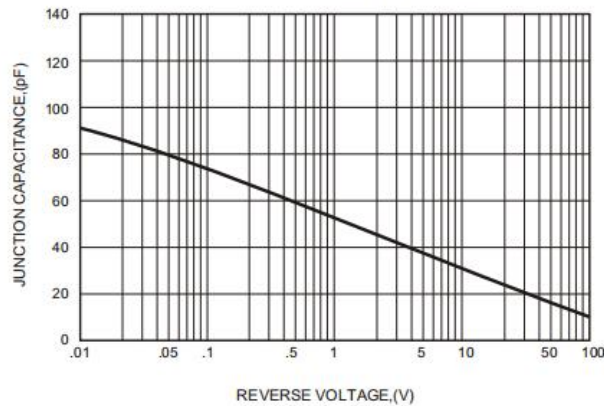
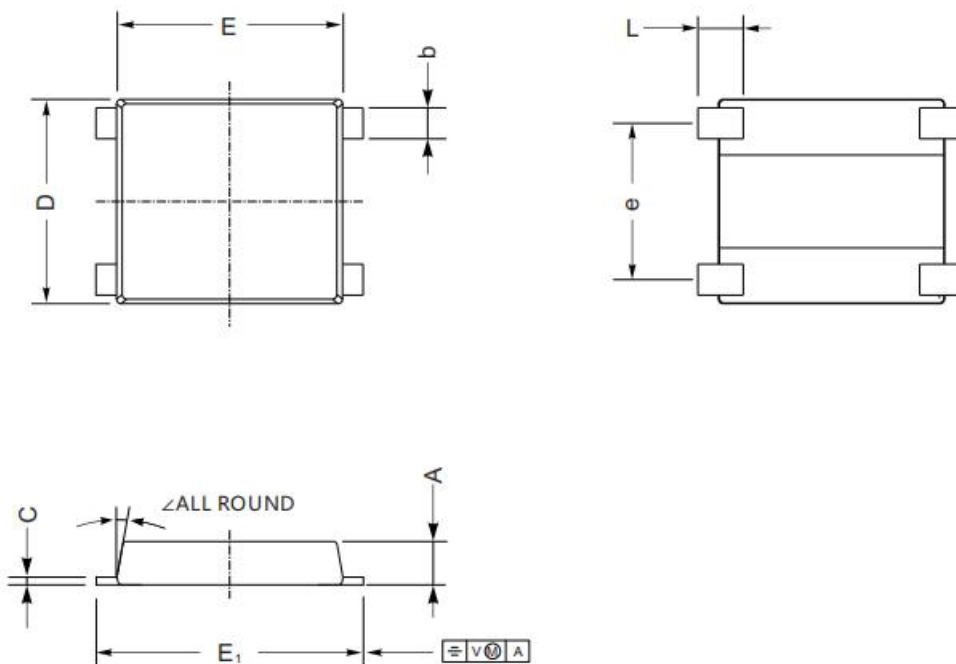


FIG.5-TYPICAL JUNCTION CAPACITANCE



■Dimension 外形封装尺寸



UMSB mechanical data

| UNIT |     | A   | C    | D   | E   | E <sub>1</sub> | L    | e   | b    | ∠   |
|------|-----|-----|------|-----|-----|----------------|------|-----|------|-----|
| mm   | max | 1.5 | 0.29 | 7.0 | 7.6 | 8.9            | 1.6  | 5.3 | 1.15 | 10° |
|      | min | 1.3 | 0.17 | 6.2 | 7.1 | 8.4            | 1.0  | 4.9 | 0.95 |     |
| mil  | max | 59  | 12   | 276 | 299 | 350            | 55   | 209 | 45   |     |
|      | min | 51  | 7    | 244 | 280 | 331            | 31.5 | 193 | 37   |     |