



## 表面贴装稳压二极管

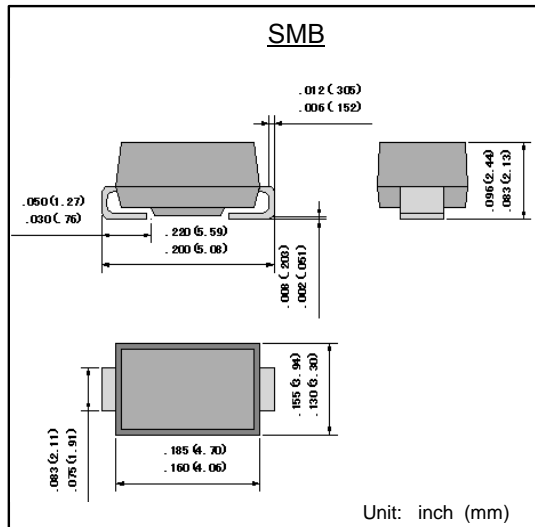
功率 3000 mW

稳压电压范围 3.3 -200 V

## Surface Mount Zener Diode

Power Dissipation 3000 mW

Zener Voltage Range 3.3 - 200V



### 特征 Features

- 平面结构芯片 Planar die construction
- 最大功率耗散3000mW。 Maximum power dissipation of 3000 mW
- 标准稳压电压公差 ±5% Standard Zener voltage tolerance is ±5%
- 高稳定性和可靠性。 High stability and high reliability
- 引线镀层符合RoHS标准  
Lead plating according with RoHS standard

### 机械数据 Mechanical Data

- 封装: SMB 塑封 Case: SMB Molded plastic
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 环氧树脂: UL易燃等级: 94V-0  
Epoxy: UL 94V-0 rate flame retardant
- 安装位置: 任意 Mounting Position: Any

### 极限值和温度特性 TA = 25°C 除非另有规定。

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

| 参数<br>Parameter   | 符号<br>Symbols   | 数值           | 单位   |
|---|-----------------|--------------|------|
|   |                 | Value        | Unit |
| 功率消耗<br>Power Dissipation                               | $P_D$           | 3000         | mW   |
| 典型热阻<br>Type Thermal Resistance (Note )                 | $R_{\theta JA}$ | 226          | °C/W |
| 工作结温和存储温度<br>Operating Junction and Storage Temperature | $T_J, T_{STG}$  | -55 --- +150 | °C   |

备注 Note:

1) 安装在覆铜面积5.0毫米\*5.0毫米的PCB板上，从PN结到周围环境的热阻。

1) Thermal resistance from junction to ambient, PCB mounted with 5.0mm\*5.0mm Copper Pad Areas.

### 电特性 TA = 25°C 除非另有规定。

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| 参数<br>Parameter         | 符号<br>Symbols | 数值    | 单位   |
|-------------------------|---------------|-------|------|
|                         |               | Value | Unit |
| 正向电压<br>Forward Voltage | $V_{FM}$      | 1.5   | V    |



电特性 TA = 25°C 除非另有规定。

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| 产品型号<br>Part No. | Nominal Zener Voltage |              | Maximum Zener Impedance |                   |                | Maximum Reverse Leakage Current |            | Maximum DC Zener Current |
|------------------|-----------------------|--------------|-------------------------|-------------------|----------------|---------------------------------|------------|--------------------------|
|                  | $V_Z @ I_{ZT}$        |              | $Z_{ZT@I_{ZT}}$         | $Z_{ZK}$          |                | $I_R(\mu A)$                    |            | $I_{ZM}$                 |
|                  | Nom.(V)               | $I_{ZT}(mA)$ | Max. ( $\Omega$ )       | Max. ( $\Omega$ ) | @ $I_{ZK}(mA)$ | Max.( $\mu A$ )                 | @ $V_R(V)$ | mA                       |
| 3SMB5913B        | 3.3                   | 227.3        | 10                      | 500               | 1              | 100                             | 1.0        | 817                      |
| 3SMB5914B        | 3.6                   | 208.3        | 9                       | 500               | 1              | 75                              | 1.0        | 749                      |
| 3SMB5915B        | 3.9                   | 192.0        | 4.5                     | 400               | 1              | 80                              | 1.0        | 691                      |
| 3SMB5916B        | 4.3                   | 174.0        | 4.5                     | 400               | 1              | 30                              | 1.0        | 627                      |
| 3SMB5917B        | 4.7                   | 160.0        | 4                       | 500               | 1              | 20                              | 1.0        | 573                      |
| 3SMB5918B        | 5.1                   | 147.0        | 3.5                     | 550               | 1              | 5                               | 1.0        | 528                      |
| 3SMB5919B        | 5.6                   | 134.0        | 2.5                     | 600               | 1              | 5                               | 2.0        | 481                      |
| 3SMB5920B        | 6.2                   | 121.0        | 1.5                     | 700               | 1              | 5                               | 3.0        | 435                      |
| 3SMB5921B        | 6.8                   | 110.0        | 2                       | 700               | 1              | 5                               | 4.0        | 393                      |
| 3SMB5922B        | 7.5                   | 100.0        | 2                       | 700               | 0.5            | 5                               | 5.0        | 360                      |
| 3SMB5923B        | 8.2                   | 91.0         | 2.3                     | 700               | 0.5            | 5                               | 6.0        | 330                      |
| 3SMB5924B        | 9.1                   | 82.0         | 2.5                     | 700               | 0.5            | 3                               | 7.0        | 297                      |
| 3SMB5925B        | 10                    | 75.0         | 3.5                     | 700               | 0.25           | 3                               | 7.6        | 270                      |
| 3SMB5926B        | 11                    | 68.0         | 4                       | 700               | 0.25           | 1                               | 8.4        | 225                      |
| 3SMB5927B        | 12                    | 63.0         | 4.5                     | 700               | 0.25           | 1                               | 9.1        | 246                      |
| 3SMB5928B        | 13                    | 58.0         | 4.5                     | 700               | 0.25           | 0.5                             | 9.9        | 208                      |
| 3SMB5929B        | 15                    | 50.0         | 5.5                     | 700               | 0.25           | 0.5                             | 11.4       | 180                      |
| 3SMB5930B        | 16                    | 47.0         | 5.5                     | 700               | 0.25           | 0.5                             | 12.2       | 169                      |
| 3SMB5931B        | 18                    | 42.0         | 6                       | 750               | 0.25           | 0.5                             | 13.7       | 150                      |
| 3SMB5932B        | 20                    | 37.0         | 7                       | 750               | 0.25           | 0.5                             | 15.2       | 135                      |
| 3SMB5933B        | 22                    | 34.0         | 8                       | 750               | 0.25           | 0.5                             | 16.7       | 123                      |
| 3SMB5934B        | 24                    | 31.0         | 9                       | 750               | 0.25           | 0.5                             | 18.2       | 112                      |
| 3SMB5935B        | 27                    | 28.0         | 10                      | 750               | 0.25           | 0.5                             | 20.6       | 100                      |
| 3SMB5936B        | 30                    | 25.0         | 16                      | 1000              | 0.25           | 0.5                             | 22.8       | 90                       |
| 3SMB5937B        | 33                    | 23.0         | 20                      | 1000              | 0.25           | 0.5                             | 25.1       | 82                       |
| 3SMB5938B        | 36                    | 21.0         | 22                      | 1000              | 0.25           | 0.5                             | 27.4       | 75                       |
| 3SMB5939B        | 39                    | 19.0         | 28                      | 1000              | 0.25           | 0.5                             | 29.7       | 69                       |
| 3SMB5940B        | 43                    | 17.0         | 33                      | 1500              | 0.25           | 0.5                             | 32.7       | 63                       |
| 3SMB5941B        | 47                    | 16.0         | 38                      | 1500              | 0.25           | 0.5                             | 35.6       | 57                       |
| 3SMB5942B        | 51                    | 15.0         | 45                      | 1500              | 0.25           | 0.5                             | 38.8       | 53                       |
| 3SMB5943B        | 56                    | 13.0         | 50                      | 2000              | 0.25           | 0.5                             | 42.6       | 48                       |
| 3SMB5944B        | 62                    | 12.0         | 55                      | 2000              | 0.25           | 0.5                             | 47.1       | 44                       |
| 3SMB5945B        | 68                    | 11.0         | 70                      | 2000              | 0.25           | 0.5                             | 51.7       | 40                       |
| 3SMB5946B        | 75                    | 10.0         | 85                      | 2000              | 0.25           | 0.5                             | 56.0       | 36                       |
| 3SMB5947B        | 82                    | 9.1          | 95                      | 3000              | 0.25           | 0.5                             | 62.2       | 33                       |
| 3SMB5948B        | 91                    | 8.2          | 115                     | 3000              | 0.25           | 0.5                             | 69.2       | 30                       |
| 3SMB5949B        | 100                   | 7.5          | 160                     | 3000              | 0.25           | 0.5                             | 76.0       | 27                       |
| 3SMB5950B        | 110                   | 6.8          | 225                     | 4000              | 0.25           | 0.5                             | 83.6       | 25                       |
| 3SMB5951B        | 120                   | 6.3          | 300                     | 4500              | 0.25           | 0.5                             | 91.2       | 22                       |
| 3SMB5952B        | 130                   | 5.8          | 375                     | 5000              | 0.25           | 0.5                             | 98.8       | 21                       |
| 3SMB5953B        | 150                   | 5.0          | 550                     | 6000              | 0.25           | 0.5                             | 114.0      | 18                       |
| 3SMB5954B        | 160                   | 4.7          | 625                     | 6500              | 0.25           | 0.5                             | 121.6      | 17                       |
| 3SMB5955B        | 180                   | 4.2          | 700                     | 7000              | 0.25           | 0.5                             | 136.8      | 16                       |
| 3SMB5956B        | 200                   | 3.7          | 875                     | 8000              | 0.25           | 0.5                             | 152.0      | 13                       |