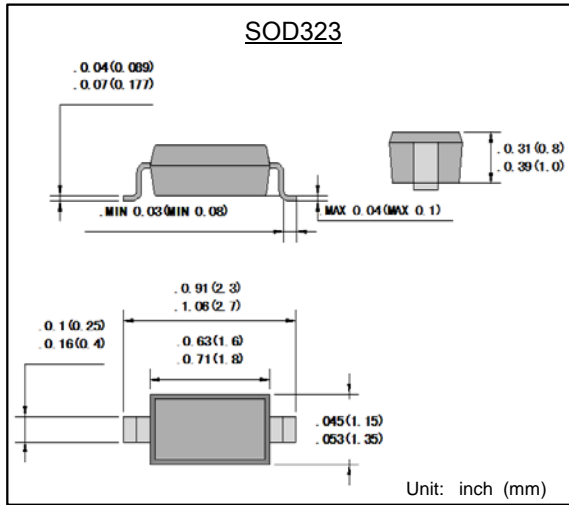




MMSZ5221BS-MMSZ5262BS

表面贴装稳压二极管
功率 200 mW
稳压电压范围 2.4 - 51 V

Surface Mounted Zener Diode
Power Dissipation 200 mW
Zener Voltage Range 2.4 - 51 V



特征 Features

- 平面结构芯片 Planar die construction
- 标准稳压电压公差 $\pm 5\%$ Standard Zener voltage tolerance is $\pm 5\%$
- 超小表面贴装器件 Ultra-small surface mount device
- 适合自动装配 Ideally suited for automated assembly processes
- 引线镀层和管体符合RoHS标准
Lead plating and body according with RoHS standard

机械数据 Mechanical Data

- 封装: SOD323 塑料封装 Case: SOD323 Molded plastic
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性 $T_A = 25^\circ\text{C}$ 除非另有规定。

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

| 参数 Parameter | 符号 Symbols | 数值 | 单位 |
|---|-----------------|--------------|---------------------------|
| | | Value | Unit |
| 功率消耗 Power Dissipation | P_D | 200 | mW |
| 典型热阻 Type Thermal Resistance (Note 1) | $R_{\theta JA}$ | 625 | $^\circ\text{C}/\text{W}$ |
| 工作结温和存储温度 Operating Junction and Storage Temperature Range | T_J, T_{STG} | -55 --- +150 | $^\circ\text{C}$ |

备注 Note:

1) 安装在覆铜面积5.0mm*5.0mm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 $T_A = 25^\circ\text{C}$ 除非另有规定。

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

| 参数 Parameter | 符号 Symbols | 数值 | 单位 |
|------------------------------------|---------------|-------|------|
| | | Value | Unit |
| 正向电压 Forward Voltage IF=10mA | V_{FM} | 0.9 | V |



MMSZ5221BS-MMSZ5262BS

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 Part No. | 印字 Marking | V _Z @ I _{ZT} | | | Z _{ZT} | | Z _{ZK} | | I _R (uA) | |
|------------------|---------------|----------------------------------|---------|---------|-----------------|-----------------------|-----------------|-----------------------|---------------------|--------|
| | | Nom.(V) | Min.(V) | Max.(V) | Max. (Ω) | @I _{ZT} (mA) | Max. (Ω) | @I _{ZK} (mA) | Max. | @VR(V) |
| MMSZ5221BS | C1 | 2.4 | 2.28 | 2.52 | 30 | 20 | 1200 | 0.25 | 100 | 1 |
| MMSZ5222BS | C2 | 2.5 | 2.38 | 2.63 | 30 | 20 | 1250 | 0.25 | 100 | 1 |
| MMSZ5223BS | C3 | 2.7 | 2.57 | 2.84 | 30 | 20 | 1300 | 0.25 | 75 | 1 |
| MMSZ5225BS | C5 | 3 | 2.85 | 3.15 | 30 | 20 | 1600 | 0.25 | 50 | 1 |
| MMSZ5226BS | G1 | 3.3 | 3.14 | 3.47 | 28 | 20 | 1600 | 0.25 | 25 | 1 |
| MMSZ5227BS | G2 | 3.6 | 3.42 | 3.78 | 24 | 20 | 1700 | 0.25 | 15 | 1 |
| MMSZ5228BS | G3 | 3.9 | 3.71 | 4.1 | 23 | 20 | 1900 | 0.25 | 10 | 1 |
| MMSZ5229BS | G4 | 4.3 | 4.09 | 4.52 | 22 | 20 | 2000 | 0.25 | 5 | 1 |
| MMSZ5230BS | G5 | 4.7 | 4.47 | 4.94 | 19 | 20 | 1900 | 0.25 | 5 | 2 |
| MMSZ5231BS | E1 | 5.1 | 4.85 | 5.36 | 17 | 20 | 1600 | 0.25 | 5 | 2 |
| MMSZ5232BS | E2 | 5.6 | 5.32 | 5.88 | 11 | 20 | 1600 | 0.25 | 5 | 3 |
| MMSZ5233BS | E3 | 6 | 5.7 | 6.3 | 7 | 20 | 1600 | 0.25 | 5 | 3.5 |
| MMSZ5234BS | E4 | 6.2 | 5.89 | 6.51 | 7 | 20 | 1000 | 0.25 | 5 | 4 |
| MMSZ5235BS | E5 | 6.8 | 6.46 | 7.14 | 5 | 20 | 750 | 0.25 | 3 | 5 |
| MMSZ5236BS | F1 | 7.5 | 7.13 | 7.88 | 6 | 20 | 500 | 0.25 | 3 | 6 |
| MMSZ5237BS | F2 | 8.2 | 7.79 | 8.61 | 8 | 20 | 500 | 0.25 | 3 | 6.5 |
| MMSZ5238BS | F3 | 8.7 | 8.27 | 9.14 | 8 | 20 | 600 | 0.25 | 3 | 6.5 |
| MMSZ5239BS | F4 | 9.1 | 8.65 | 9.56 | 10 | 20 | 600 | 0.25 | 3 | 7 |
| MMSZ5240BS | F5 | 10 | 9.5 | 10.5 | 17 | 20 | 600 | 0.25 | 3 | 8 |
| MMSZ5241BS | H1 | 11 | 10.45 | 11.55 | 22 | 20 | 600 | 0.25 | 2 | 8.4 |
| MMSZ5242BS | H2 | 12 | 11.4 | 12.6 | 30 | 20 | 600 | 0.25 | 1 | 9.1 |
| MMSZ5243BS | H3 | 13 | 12.35 | 13.65 | 13 | 9.5 | 600 | 0.25 | 0.5 | 9.9 |
| MMSZ5244BS | H4 | 14 | 13.3 | 14.7 | 15 | 9 | 600 | 0.25 | 0.1 | 10.5 |
| MMSZ5245BS | H5 | 15 | 14.25 | 15.75 | 16 | 8.5 | 600 | 0.25 | 0.1 | 11 |
| MMSZ5246BS | J1 | 16 | 15.2 | 16.8 | 17 | 7.8 | 600 | 0.25 | 0.1 | 12 |
| MMSZ5247BS | J2 | 17 | 16.15 | 17.85 | 19 | 7.5 | 600 | 0.25 | 0.1 | 13 |
| MMSZ5248BS | J3 | 18 | 17.1 | 18.9 | 21 | 7 | 600 | 0.25 | 0.1 | 14 |
| MMSZ5250BS | J5 | 20 | 19 | 21 | 25 | 6 | 600 | 0.25 | 0.1 | 15 |
| MMSZ5251BS | K1 | 22 | 20.9 | 23.1 | 29 | 5.6 | 600 | 0.25 | 0.1 | 17 |
| MMSZ5252BS | K2 | 24 | 22.8 | 25.2 | 33 | 5.2 | 600 | 0.25 | 0.1 | 18 |
| MMSZ5253BS | K3 | 25 | 23.75 | 26.25 | 35 | 5 | 600 | 0.25 | 0.1 | 19 |
| MMSZ5254BS | K4 | 27 | 25.65 | 28.35 | 41 | 4.6 | 600 | 0.25 | 0.1 | 21 |
| MMSZ5255BS | K5 | 28 | 26.6 | 29.4 | 44 | 4.5 | 600 | 0.25 | 0.1 | 21 |
| MMSZ5256BS | M1 | 30 | 28.5 | 31.5 | 49 | 4.2 | 600 | 0.25 | 0.1 | 23 |
| MMSZ5257BS | M2 | 33 | 31.35 | 34.65 | 58 | 3.8 | 700 | 0.25 | 0.1 | 25 |
| MMSZ5258BS | M3 | 36 | 34.2 | 37.8 | 70 | 3.4 | 700 | 0.25 | 0.1 | 27 |
| MMSZ5259BS | M4 | 39 | 37.05 | 40.95 | 80 | 3.2 | 800 | 0.25 | 0.1 | 30 |
| MMSZ5260BS | M5 | 43 | 40.85 | 45.15 | 93 | 3 | 900 | 0.25 | 0.1 | 33 |
| MMSZ5261BS | N1 | 47 | 44.65 | 49.35 | 105 | 2.7 | 1000 | 0.25 | 0.1 | 36 |
| MMSZ5262BS | N2 | 51 | 48.45 | 53.55 | 125 | 2.5 | 1100 | 0.25 | 0.1 | 39 |