

ZENER DIODE

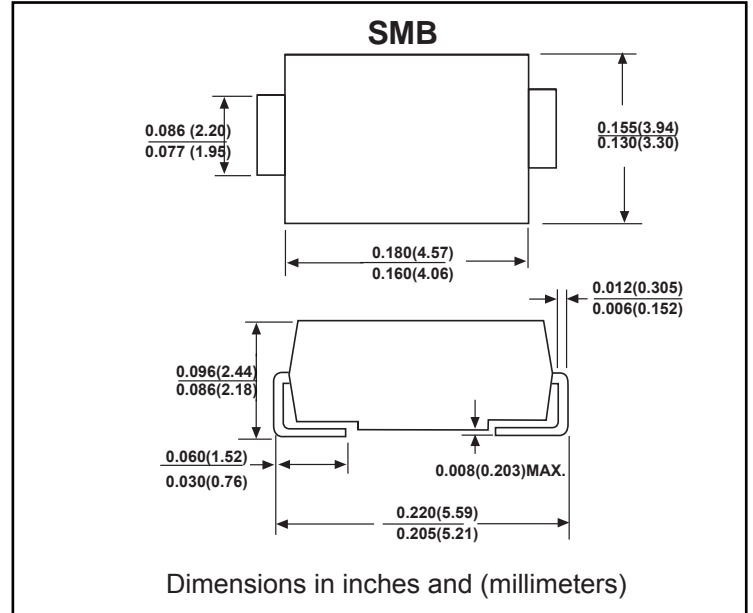
VOLTAGE RANGE: 3.3--- 56V PEAK PULSE POWER:3.0W

FEATURES

- Low Reverse Leakage
- Low Zener Impedance
- High Stability and High Reliability

MECHANICAL DATA

- Case: SMB
- Polarity: Color band denotes cathode end
- Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

| Parameters | SYMBOLS | VALUE | UNITS |
|---|----------------|--------------|-------|
| Power Dissipation | P_D | 3000 | mW |
| Forward Voltage @ I_F | V_F | 1.5 | V |
| Operating and Storage Temperature Range | T_J, T_{STG} | -55 to + 150 | °C |

Electrical Specification ($T_A=25^\circ\text{C}$ unless otherwise specified)

| Type | V_Z | I_{ZT} | Z_{ZT} | Z_{ZK} | I_{ZK} | I_{RM} | V_R | $I_{ZM} @ 50^\circ\text{C}$ |
|---------|-------|----------|----------------------------|----------------------|----------|----------|-------|-----------------------------|
| | V | mA | ($I=I_{ZT}$) Ω | I_{ZK} Ω | | | | |
| 1N5333B | 3.3 | 380 | 3.0 | 400 | 1.0 | 300 | 1.0 | 1440 |
| 1N5334B | 3.6 | 350 | 2.5 | 500 | 1.0 | 150 | 1.0 | 1320 |
| 1N5335B | 3.9 | 320 | 2.0 | 500 | 1.0 | 50 | 1.0 | 1220 |
| 1N5336B | 4.3 | 290 | 2.0 | 500 | 1.0 | 10 | 1.0 | 1100 |
| 1N5337B | 4.7 | 260 | 2.0 | 450 | 1.0 | 5.0 | 1.0 | 1010 |
| 1N5338B | 5.1 | 240 | 1.5 | 400 | 1.0 | 1.0 | 1.0 | 930 |
| 1N5339B | 5.6 | 220 | 1.0 | 400 | 1.0 | 1.0 | 2.0 | 865 |
| 1N5340B | 6.0 | 200 | 1.0 | 300 | 1.0 | 1.0 | 3.0 | 790 |
| 1N5341B | 6.2 | 200 | 1.0 | 200 | 1.0 | 1.0 | 3.0 | 765 |

RATINGS AND CHARACTERISTIC CURVES

Electrical Specification ($T_A=25^\circ\text{C}$ unless otherwise specified)

| Type | V_Z | I_{ZT} | Z_{ZT} | Z_{ZK} | I_{ZK} | I_{RM} | V_R | $I_{ZM} @50^\circ\text{C}$ |
|---------|-------|----------|--------------|----------|----------|----------|---------------|----------------------------|
| | V | | $(I=I_{ZT})$ | I_{ZK} | | | | |
| | | | mA | Ω | Ω | mA | μA | V |
| 1N5342B | 6.8 | 175 | 1.0 | 200 | 1.0 | 10 | 5.2 | 700 |
| 1N5343B | 7.5 | 175 | 1.5 | 200 | 1.0 | 10 | 5.7 | 630 |
| 1N5344B | 8.2 | 150 | 1.5 | 200 | 1.0 | 10 | 6.2 | 580 |
| 1N5345B | 8.7 | 150 | 2.0 | 200 | 1.0 | 10 | 6.6 | 545 |
| 1N5346B | 9.1 | 150 | 2.0 | 150 | 1.0 | 7.5 | 6.9 | 520 |
| 1N5347B | 10 | 125 | 2.0 | 125 | 1.0 | 7.5 | 7.6 | 475 |
| 1N5348B | 11 | 125 | 2.5 | 125 | 1.0 | 5.0 | 8.4 | 430 |
| 1N5349B | 12 | 100 | 2.5 | 125 | 1.0 | 2.0 | 9.1 | 395 |
| 1N5350B | 13 | 100 | 2.5 | 100 | 1.0 | 1.0 | 9.9 | 365 |
| 1N5351B | 14 | 100 | 2.5 | 75 | 1.0 | 1.0 | 10.6 | 340 |
| 1N5352B | 15 | 75 | 2.5 | 75 | 1.0 | 1.0 | 11.5 | 310 |
| 1N5353B | 16 | 75 | 2.5 | 75 | 1.0 | 1.0 | 12.2 | 295 |
| 1N5354B | 17 | 70 | 2.5 | 75 | 1.0 | 0.5 | 12.9 | 280 |
| 1N5355B | 18 | 65 | 2.5 | 75 | 1.0 | 0.5 | 13.7 | 265 |
| 1N5356B | 19 | 65 | 3.0 | 75 | 1.0 | 0.5 | 14.4 | 250 |
| 1N5357B | 20 | 65 | 3.0 | 75 | 1.0 | 0.5 | 15.2 | 237 |
| 1N5358B | 22 | 50 | 3.5 | 75 | 1.0 | 0.5 | 16.7 | 216 |
| 1N5359B | 24 | 50 | 3.5 | 100 | 1.0 | 0.5 | 18.2 | 198 |
| 1N5360B | 25 | 50 | 4.0 | 110 | 1.0 | 0.5 | 19.0 | 190 |
| 1N5361B | 27 | 50 | 5.0 | 120 | 1.0 | 0.5 | 20.6 | 176 |
| 1N5362B | 28 | 50 | 6.0 | 130 | 1.0 | 0.5 | 21.2 | 170 |
| 1N5363B | 30 | 40 | 8.0 | 140 | 1.0 | 0.5 | 22.8 | 158 |
| 1N5364B | 33 | 40 | 10 | 150 | 1.0 | 0.5 | 25.1 | 144 |
| 1N5365B | 36 | 30 | 11 | 160 | 1.0 | 0.5 | 27.4 | 132 |
| 1N5366B | 39 | 30 | 14 | 170 | 1.0 | 0.5 | 29.7 | 122 |
| 1N5367B | 43 | 30 | 20 | 190 | 1.0 | 0.5 | 32.7 | 110 |
| 1N5368B | 47 | 25 | 25 | 210 | 1.0 | 0.5 | 35.8 | 100 |

RATINGS AND CHARACTERISTIC CURVES

Electrical Specification ($T_A = @25^\circ\text{C}$ unless otherwise specified)

| Type | V_Z | I_{ZT} | Z_{ZT} | Z_{ZK} | I_{ZK} | I_{RM} | V_R | $I_{ZM} @50^\circ\text{C}$ |
|---------|-------|----------|------------------|----------|----------|---------------|-------|----------------------------|
| | | | ($I = I_{ZT}$) | I_{ZK} | | | | |
| | V | mA | Ω | Ω | mA | μA | V | mA |
| 1N5369B | 51 | 25 | 27 | 230 | 1.0 | 0.5 | 38.8 | 93.0 |
| 1N5370B | 56 | 20 | 35 | 280 | 1.0 | 0.5 | 42.6 | 86.0 |

NOTE: 1. suffix "B" denotes 5% tolerance which is standard.