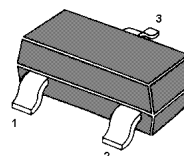


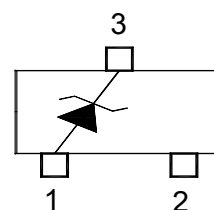
SILICON PLANAR ZENER DIODES

FEATURES

- Planar Die construction
- 350mW Power Dissipation
- Zener Voltages from 2.4V~51V
- Ideally Suited for Automated Assembly Processes



1.ANODE 3.CATHODE
SOT-23 Plastic Package



Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

| Parameter | Symbol | Value | Unit |
|---|-----------------|---------------|--------------------|
| Power Dissipation | P_D | 350 | mW |
| Thermal Resistance, Junction to Ambient | $R_{\theta JA}$ | 357 | $^\circ\text{C/W}$ |
| Junction Temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | - 55 to + 150 | $^\circ\text{C}$ |

Characteristics $T_a = 25\text{ }^\circ\text{C}$ ($V_F = 0.9\text{ V}$ Maximum at $I_F = 10\text{ mA}$)

| Type | Marking Code | Zener Voltage Range ¹⁾ | | | Max. Dynamic Resistance | | | | Max. Reverse Current | |
|-----------|--------------|-----------------------------------|---------------|-------------|-------------------------|-------------|----------|-------------|----------------------|----------|
| | | V_{znom} | V_{ZT} | at I_{ZT} | Z_{ZT} | at I_{ZT} | Z_{ZK} | at I_{ZK} | I_R | at V_R |
| | | V | V | mA | Ω | mA | Ω | mA | μA | V |
| MMBZ5221B | Y0 | 2.4 | 2.28...2.52 | 20 | 30 | 20 | 1200 | 0.25 | 100 | 1 |
| MMBZ5223B | Z0 | 2.7 | 2.57...2.84 | 20 | 30 | 20 | 1300 | 0.25 | 75 | 1 |
| MMBZ5225B | AA | 3 | 2.85...3.15 | 20 | 30 | 20 | 1600 | 0.25 | 50 | 1 |
| MMBZ5226B | AB | 3.3 | 3.14...3.47 | 20 | 28 | 20 | 1600 | 0.25 | 25 | 1 |
| MMBZ5227B | AC | 3.6 | 3.42...3.78 | 20 | 24 | 20 | 1700 | 0.25 | 15 | 1 |
| MMBZ5228B | AD | 3.9 | 3.71...4.1 | 20 | 23 | 20 | 1900 | 0.25 | 10 | 1 |
| MMBZ5229B | AE | 4.3 | 4.09...4.52 | 20 | 22 | 20 | 2000 | 0.25 | 5 | 1 |
| MMBZ5230B | AF | 4.7 | 4.47...4.94 | 20 | 19 | 20 | 1900 | 0.25 | 5 | 2 |
| MMBZ5231B | AH | 5.1 | 4.85...5.36 | 20 | 17 | 20 | 1600 | 0.25 | 5 | 2 |
| MMBZ5232B | AJ | 5.6 | 5.32...5.88 | 20 | 11 | 20 | 1600 | 0.25 | 5 | 3 |
| MMBZ5233B | AK | 6 | 5.7...6.3 | 20 | 7 | 20 | 1600 | 0.25 | 5 | 3.5 |
| MMBZ5234B | AM | 6.2 | 5.89...6.51 | 20 | 7 | 20 | 1000 | 0.25 | 5 | 4 |
| MMBZ5235B | AN | 6.8 | 6.46...7.14 | 20 | 5 | 20 | 750 | 0.25 | 3 | 5 |
| MMBZ5236B | AP | 7.5 | 7.13...7.88 | 20 | 6 | 20 | 500 | 0.25 | 3 | 6 |
| MMBZ5237B | AR | 8.2 | 7.79...8.61 | 20 | 8 | 20 | 500 | 0.25 | 3 | 6.5 |
| MMBZ5239B | AY | 9.1 | 8.65...9.56 | 20 | 10 | 20 | 600 | 0.25 | 3 | 7 |
| MMBZ5240B | AZ | 10 | 9.5...10.5 | 20 | 17 | 20 | 600 | 0.25 | 3 | 8 |
| MMBZ5241B | BA | 11 | 10.45...11.55 | 20 | 22 | 20 | 600 | 0.25 | 2 | 8.4 |
| MMBZ5242B | BB | 12 | 11.4...12.6 | 20 | 30 | 20 | 600 | 0.25 | 1 | 9.1 |
| MMBZ5243B | BC | 13 | 12.35...13.65 | 9.5 | 13 | 9.5 | 600 | 0.25 | 0.5 | 9.9 |
| MMBZ5245B | BE | 15 | 14.25...15.75 | 8.5 | 16 | 8.5 | 600 | 0.25 | 0.1 | 11 |
| MMBZ5246B | BF | 16 | 15.2...16.8 | 7.8 | 17 | 7.8 | 600 | 0.25 | 0.1 | 12 |
| MMBZ5247B | BH | 17 | 16.15...17.85 | 7.4 | 19 | 7.4 | 600 | 0.25 | 0.1 | 13 |
| MMBZ5248B | BJ | 18 | 17.1...18.9 | 7 | 21 | 7 | 600 | 0.25 | 0.1 | 14 |
| MMBZ5249B | BK | 19 | 18.05...19.95 | 6.6 | 23 | 6.6 | 600 | 0.25 | 0.1 | 14 |
| MMBZ5250B | BM | 20 | 19...21 | 6.2 | 25 | 6.2 | 600 | 0.25 | 0.1 | 15 |
| MMBZ5251B | BN | 22 | 20.9...23.1 | 5.6 | 29 | 5.6 | 600 | 0.25 | 0.1 | 17 |
| MMBZ5252B | BP | 24 | 22.8...25.2 | 5.2 | 33 | 5.2 | 600 | 0.25 | 0.1 | 18 |
| MMBZ5253B | BR | 25 | 23.75...26.25 | 5 | 35 | 5 | 600 | 0.25 | 0.1 | 19 |
| MMBZ5254B | BX | 27 | 25.65...28.35 | 4.6 | 41 | 4.6 | 600 | 0.25 | 0.1 | 21 |
| MMBZ5256B | BZ | 30 | 28.5...31.5 | 4.2 | 49 | 4.2 | 600 | 0.25 | 0.1 | 23 |
| MMBZ5257B | CA | 33 | 31.35...34.65 | 3.8 | 58 | 3.8 | 700 | 0.25 | 0.1 | 25 |
| MMBZ5258B | CB | 36 | 34.2...37.8 | 3.4 | 70 | 3.4 | 700 | 0.25 | 0.1 | 27 |
| MMBZ5259B | CC | 39 | 37.05...40.95 | 3.2 | 80 | 3.2 | 800 | 0.25 | 0.1 | 30 |
| MMBZ5260B | CD | 43 | 40.85...45.15 | 3 | 93 | 3 | 800 | 0.25 | 0.1 | 33 |
| MMBZ5261B | CE | 47 | 44.65...49.35 | 2.7 | 105 | 2.7 | 1000 | 0.25 | 0.1 | 36 |
| MMBZ5262B | CF | 51 | 48.45...53.55 | 2.5 | 125 | 2.5 | 1100 | 0.25 | 0.1 | 39 |

¹⁾ Tested with pulses $t_p = 20\text{ ms}$.

Typical Characteristics

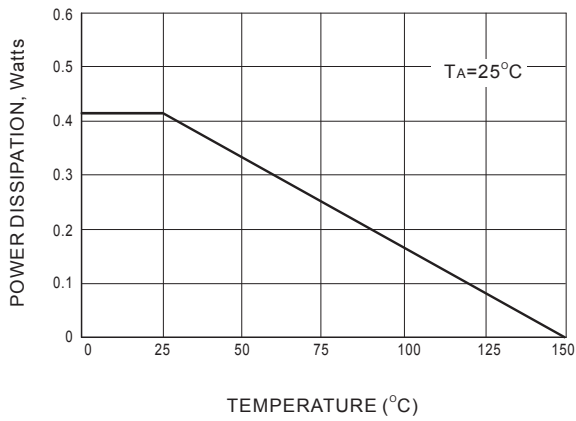


Fig.1 STEADY STATE POWER DERATING

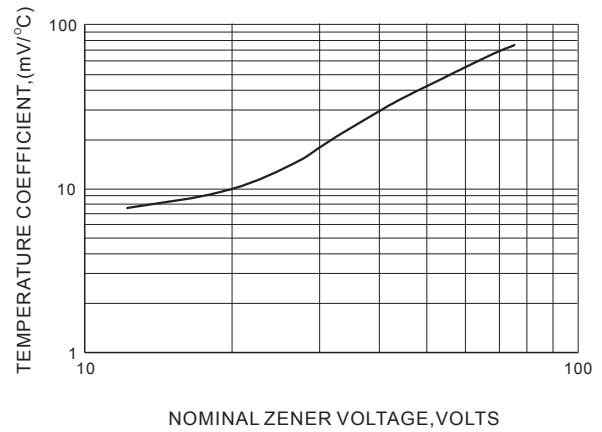


Fig.2 TEMPERATURE COEFFICIENTS

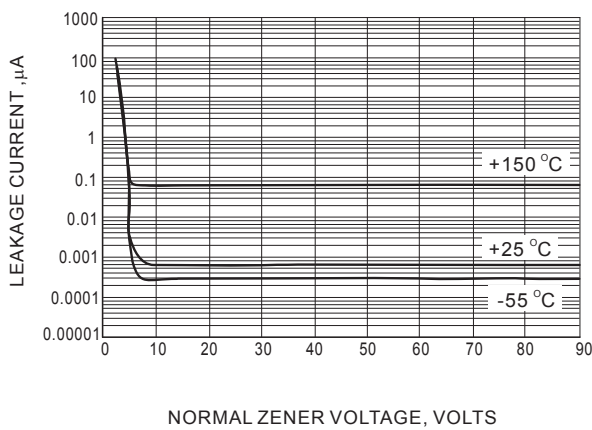


Fig.3 TYPICAL LEAKAGE CURRENT

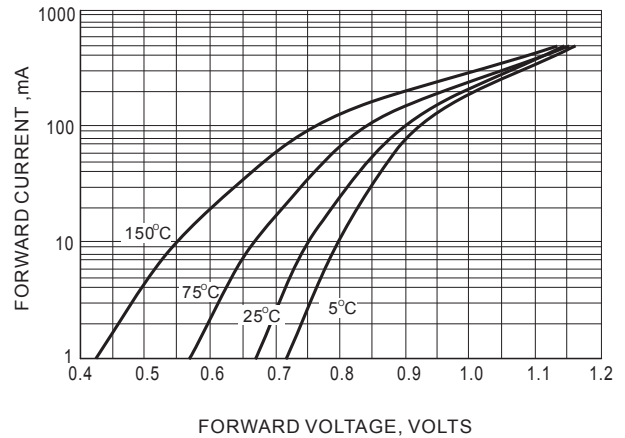
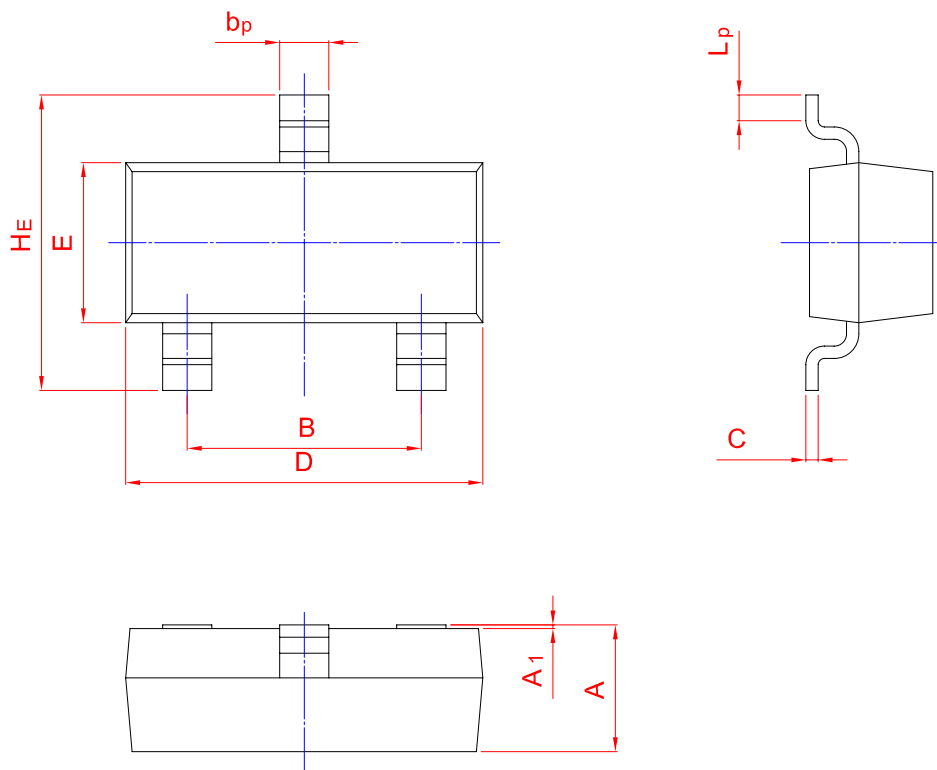
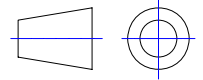


Fig.4 TYPICAL FORWARD VOLTAGE

PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



| UNIT | A | B | b _p | C | D | E | H _E | A ₁ | L _p |
|------|------|------|----------------|------|------|------|----------------|----------------|----------------|
| mm | 1.40 | 2.04 | 0.50 | 0.19 | 3.10 | 1.65 | 3.00 | 0.100 | 0.50 |
| | 0.95 | 1.78 | 0.35 | 0.08 | 2.70 | 1.20 | 2.20 | 0.013 | 0.20 |

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[1N4760ARL](#) [1N5221B](#) [1N5231B-TR](#) [1N5236B](#) [1N5241BTR](#) [1N5242BTR](#) [1N5350B](#) [1N5352B](#) [1N961BRR1](#) [1N964BRL](#) [RKZ5.1BKU#P6](#)
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