

MM3Z5221B~MM3Z5267B

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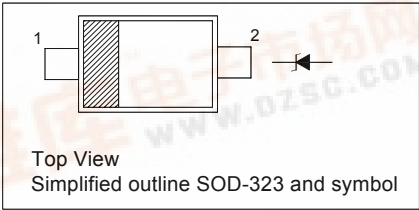
Silicon Planar Zener Diodes

Features

- Total power dissipation: Max. 300 mW
- Small plastic package suitable for surface mounted design
- Tolerance approximately  $\pm 5\%$

PINNING

| PIN | DESCRIPTION |
|-----|-------------|
| 1   | Cathode     |
| 2   | Anode       |



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

| Parameter                 | Symbol           | Value         | Unit               |
|---------------------------|------------------|---------------|--------------------|
| Power Dissipation         | $P_{\text{tot}}$ | 300           | mW                 |
| Junction Temperature      | $T_j$            | 150           | $^{\circ}\text{C}$ |
| Storage Temperature Range | $T_{\text{stg}}$ | - 55 to + 150 | $^{\circ}\text{C}$ |

Characteristics at  $T_a = 25\text{ }^{\circ}\text{C}$

| Parameter                                  | Symbol                | Max. | Unit                 |
|--------------------------------------------|-----------------------|------|----------------------|
| Thermal Resistance Junction to Ambient Air | $R_{\theta\text{JA}}$ | 417  | $^{\circ}\text{C/W}$ |
| Forward Voltage<br>at $I_F = 10\text{ mA}$ | $V_F$                 | 0.9  | V                    |

SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 12/06/2009

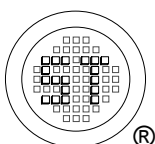
# MM3Z5221B~MM3Z5267B

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## Characteristics at $T_a = 25^\circ\text{C}$

| Type      | Marking Code | Zener Voltage Range <sup>1)</sup> |                |                   | Dynamic Impedance           |                             |                   | Reverse Current               |               |
|-----------|--------------|-----------------------------------|----------------|-------------------|-----------------------------|-----------------------------|-------------------|-------------------------------|---------------|
|           |              | $V_{Znom}$<br>V                   | $I_{ZT}$<br>mA | for $V_{ZT}$<br>V | $Z_{ZT}$<br>$\Omega$ (Max.) | $Z_{ZK}$<br>$\Omega$ (Max.) | at $I_{ZK}$<br>mA | $I_R$<br>$\mu\text{A}$ (Max.) | at $V_R$<br>V |
| MM3Z5221B | A1           | 2.4                               | 20             | 2.28...2.52       | 30                          | 1200                        | 0.25              | 100                           | 1             |
| MM3Z5223B | B1           | 2.7                               | 20             | 2.57...2.84       | 30                          | 1300                        | 0.25              | 75                            | 1             |
| MM3Z5225B | C1           | 3.0                               | 20             | 2.85...3.15       | 29                          | 1600                        | 0.25              | 50                            | 1             |
| MM3Z5226B | D1           | 3.3                               | 20             | 3.14...3.47       | 28                          | 1600                        | 0.25              | 25                            | 1             |
| MM3Z5227B | E1           | 3.6                               | 20             | 3.42...3.78       | 24                          | 1700                        | 0.25              | 15                            | 1             |
| MM3Z5228B | F1           | 3.9                               | 20             | 3.71...4.1        | 23                          | 1900                        | 0.25              | 10                            | 1             |
| MM3Z5229B | H1           | 4.3                               | 20             | 4.09...4.52       | 22                          | 2000                        | 0.25              | 5                             | 1             |
| MM3Z5230B | J1           | 4.7                               | 20             | 4.47...4.94       | 19                          | 1900                        | 0.25              | 5                             | 2             |
| MM3Z5231B | K1           | 5.1                               | 20             | 4.85...5.36       | 17                          | 1600                        | 0.25              | 5                             | 2             |
| MM3Z5232B | M1           | 5.6                               | 20             | 5.32...5.88       | 11                          | 1600                        | 0.25              | 5                             | 3             |
| MM3Z5234B | N1           | 6.2                               | 20             | 5.89...6.51       | 7                           | 1000                        | 0.25              | 5                             | 4             |
| MM3Z5235B | P1           | 6.8                               | 20             | 6.46...7.14       | 5                           | 750                         | 0.25              | 3                             | 5             |
| MM3Z5236B | R1           | 7.5                               | 20             | 7.13...7.88       | 6                           | 500                         | 0.25              | 3                             | 6             |
| MM3Z5237B | X1           | 8.2                               | 20             | 7.79...8.61       | 8                           | 500                         | 0.25              | 3                             | 6.5           |
| MM3Z5239B | Y1           | 9.1                               | 20             | 8.65...9.56       | 10                          | 600                         | 0.25              | 3                             | 7             |
| MM3Z5240B | Z1           | 10                                | 20             | 9.5...10.5        | 17                          | 600                         | 0.25              | 3                             | 8             |
| MM3Z5241B | A2           | 11                                | 20             | 10.45...11.55     | 22                          | 600                         | 0.25              | 2                             | 8.4           |
| MM3Z5242B | B2           | 12                                | 20             | 11.4...12.6       | 30                          | 600                         | 0.25              | 1                             | 9.1           |
| MM3Z5243B | C2           | 13                                | 9.5            | 12.35...13.65     | 13                          | 600                         | 0.25              | 0.5                           | 9.9           |
| MM3Z5245B | D2           | 15                                | 8.5            | 14.25...15.75     | 16                          | 600                         | 0.25              | 0.1                           | 11            |
| MM3Z5246B | E2           | 16                                | 7.8            | 15.2...16.8       | 17                          | 600                         | 0.25              | 0.1                           | 12            |
| MM3Z5248B | F2           | 18                                | 7              | 17.1...18.9       | 21                          | 600                         | 0.25              | 0.1                           | 14            |
| MM3Z5249B | N9           | 19                                | 6.6            | 18.05...19.95     | 23                          | 600                         | 0.25              | 0.1                           | 14            |
| MM3Z5250B | H2           | 20                                | 6.2            | 19...21           | 25                          | 600                         | 0.25              | 0.1                           | 15            |
| MM3Z5251B | J2           | 22                                | 5.6            | 20.9...23.1       | 29                          | 600                         | 0.25              | 0.1                           | 17            |
| MM3Z5252B | K2           | 24                                | 5.2            | 22.8...25.2       | 33                          | 600                         | 0.25              | 0.1                           | 18            |
| MM3Z5253B | P9           | 25                                | 5              | 23.75...26.25     | 35                          | 600                         | 0.25              | 0.1                           | 19            |
| MM3Z5254B | M2           | 27                                | 4.6            | 25.65...28.35     | 41                          | 600                         | 0.25              | 0.1                           | 21            |
| MM3Z5256B | N2           | 30                                | 4.2            | 28.5...31.5       | 49                          | 600                         | 0.25              | 0.1                           | 23            |
| MM3Z5257B | P2           | 33                                | 3.8            | 31.35...34.65     | 58                          | 700                         | 0.25              | 0.1                           | 25            |
| MM3Z5258B | R2           | 36                                | 3.4            | 34.2...37.8       | 70                          | 700                         | 0.25              | 0.1                           | 27            |
| MM3Z5259B | X2           | 39                                | 3.2            | 37.05...40.95     | 80                          | 800                         | 0.25              | 0.1                           | 30            |
| MM3Z5260B | Y2           | 43                                | 3              | 40.85...45.15     | 93                          | 900                         | 0.25              | 0.1                           | 33            |
| MM3Z5261B | Z2           | 47                                | 2.7            | 44.65...49.35     | 105                         | 1000                        | 0.25              | 0.1                           | 36            |
| MM3Z5262B | A3           | 51                                | 2.5            | 48.45...53.55     | 125                         | 1100                        | 0.25              | 0.1                           | 39            |
| MM3Z5263B | B3           | 56                                | 2.2            | 53.2...58.8       | 150                         | 1300                        | 0.25              | 0.1                           | 43            |
| MM3Z5265B | C3           | 62                                | 2              | 58.9...65.1       | 185                         | 1400                        | 0.25              | 0.1                           | 47            |
| MM3Z5266B | D3           | 68                                | 1.8            | 64.6...71.4       | 230                         | 1600                        | 0.25              | 0.1                           | 52            |
| MM3Z5267B | E3           | 75                                | 1.7            | 71.25...78.75     | 270                         | 1700                        | 0.25              | 0.1                           | 56            |

<sup>1)</sup>  $V_Z$  is tested with pulses (20 ms)



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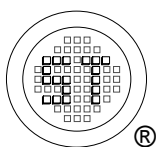
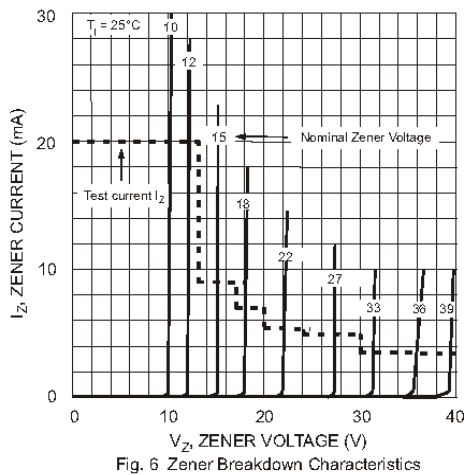
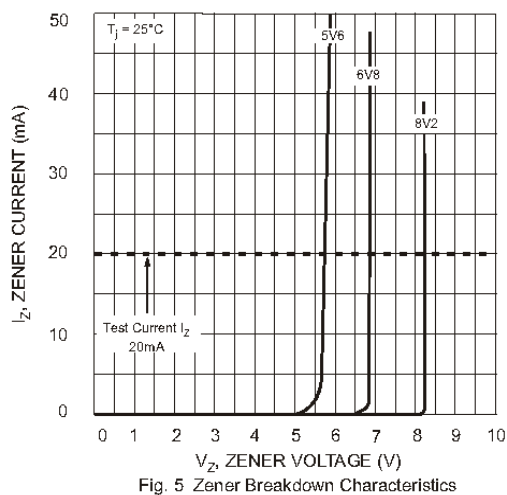
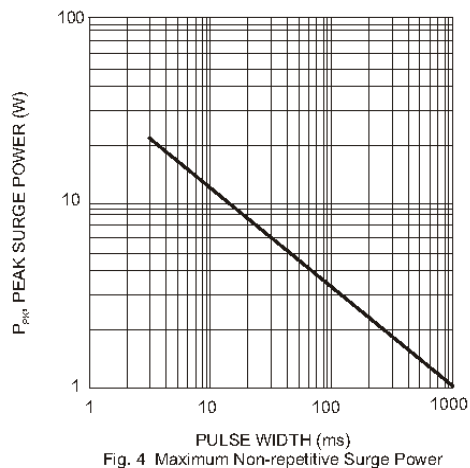
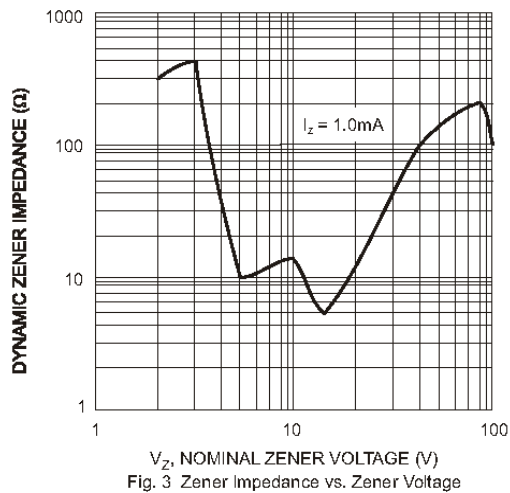
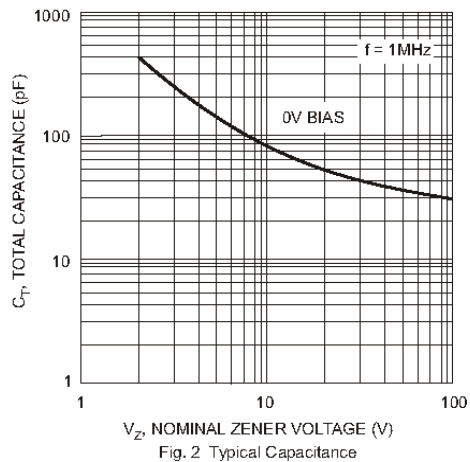
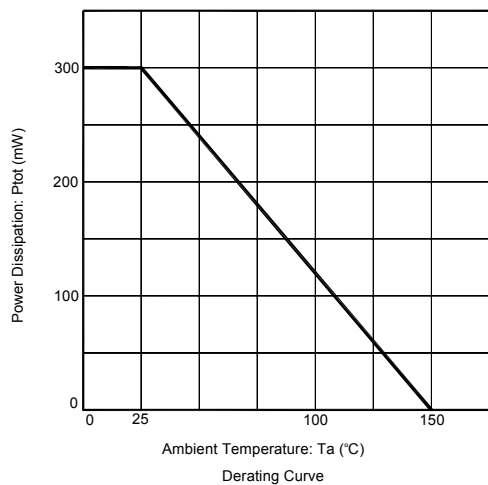
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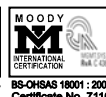
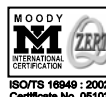
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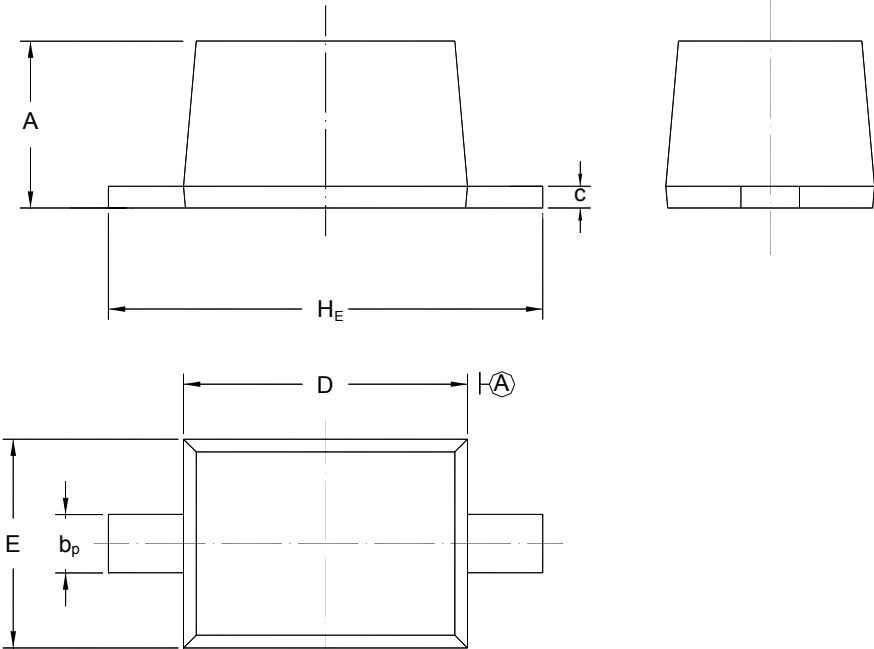


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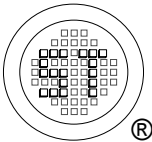
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



| UNIT | A            | b <sub>p</sub> | C            | D            | E            | H <sub>E</sub> |
|------|--------------|----------------|--------------|--------------|--------------|----------------|
| mm   | 1.10<br>0.80 | 0.40<br>0.25   | 0.15<br>0.10 | 1.80<br>1.60 | 1.35<br>1.15 | 2.80<br>2.30   |



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