

# MM3Z2V0~MM3Z75

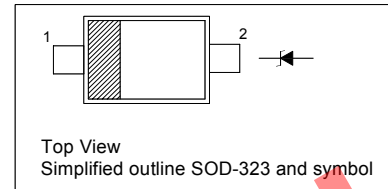
## Silicon Planar Zener Diodes

### 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 ( $T_a = 25^\circ\text{C}$ )

| 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 $T_a = 25^\circ\text{C}$

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



**SEMTECH ELECTRONICS LTD.**  
Subsidiary of Sino-Tech International (BVI) Limited



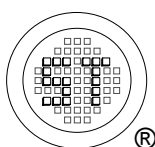
Dated: 01/12/2012 Rev: 01

# MM3Z2V0~MM3Z75

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

| Type    | Marking Code | Zener Voltage Range <sup>1)</sup> |             |             | Dynamic Impedance |             | Reverse Leakage Current |          |
|---------|--------------|-----------------------------------|-------------|-------------|-------------------|-------------|-------------------------|----------|
|         |              | $V_{znom}$                        | $V_{ZT}$    | at $I_{ZT}$ | $Z_{ZT}$          | at $I_{ZT}$ | $I_R$                   | at $V_R$ |
|         |              | (V)                               | (V)         | (mA)        | Max. ( $\Omega$ ) | (mA)        | Max. ( $\mu\text{A}$ )  | (V)      |
| MM3Z2V0 | B0           | 2.0                               | 1.8...2.15  | 5           | 100               | 5           | 120                     | 0.5      |
| MM3Z2V2 | C0           | 2.2                               | 2.08...2.33 | 5           | 100               | 5           | 120                     | 0.7      |
| MM3Z2V4 | 1C           | 2.4                               | 2.28...2.56 | 5           | 100               | 5           | 120                     | 1        |
| MM3Z2V7 | 1D           | 2.7                               | 2.5...2.9   | 5           | 110               | 5           | 120                     | 1        |
| MM3Z3V0 | 1E           | 3.0                               | 2.8...3.2   | 5           | 120               | 5           | 50                      | 1        |
| MM3Z3V3 | 1F           | 3.3                               | 3.1...3.5   | 5           | 130               | 5           | 20                      | 1        |
| MM3Z3V6 | 1H           | 3.6                               | 3.4...3.8   | 5           | 130               | 5           | 10                      | 1        |
| MM3Z3V9 | 1J           | 3.9                               | 3.7...4.1   | 5           | 130               | 5           | 5                       | 1        |
| MM3Z4V3 | 1K           | 4.3                               | 4...4.6     | 5           | 130               | 5           | 5                       | 1        |
| MM3Z4V7 | 1M           | 4.7                               | 4.4...5     | 5           | 130               | 5           | 2                       | 1        |
| MM3Z5V1 | 1N           | 5.1                               | 4.8...5.4   | 5           | 130               | 5           | 2                       | 1.5      |
| MM3Z5V6 | 1P           | 5.6                               | 5.2...6     | 5           | 80                | 5           | 1                       | 2.5      |
| MM3Z6V2 | 1R           | 6.2                               | 5.8...6.6   | 5           | 50                | 5           | 1                       | 3        |
| MM3Z6V8 | 1X           | 6.8                               | 6.4...7.2   | 5           | 30                | 5           | 0.5                     | 3.5      |
| MM3Z7V5 | 1Y           | 7.5                               | 7...7.9     | 5           | 30                | 5           | 0.5                     | 4        |
| MM3Z8V2 | 1Z           | 8.2                               | 7.7...8.7   | 5           | 30                | 5           | 0.5                     | 5        |
| MM3Z9V1 | 2A           | 9.1                               | 8.5...9.6   | 5           | 30                | 5           | 0.5                     | 6        |
| MM3Z10  | 2B           | 10                                | 9.4...10.6  | 5           | 30                | 5           | 0.1                     | 7        |
| MM3Z11  | 2C           | 11                                | 10.4...11.6 | 5           | 30                | 5           | 0.1                     | 8        |
| MM3Z12  | 2D           | 12                                | 11.4...12.7 | 5           | 35                | 5           | 0.1                     | 9        |
| MM3Z13  | 2E           | 13                                | 12.4...14.1 | 5           | 35                | 5           | 0.1                     | 10       |
| MM3Z15  | 2F           | 15                                | 13.8...15.6 | 5           | 40                | 5           | 0.1                     | 11       |
| MM3Z16  | 2H           | 16                                | 15.3...17.1 | 5           | 40                | 5           | 0.1                     | 12       |
| MM3Z18  | 2J           | 18                                | 16.8...19.1 | 5           | 45                | 5           | 0.1                     | 13       |
| MM3Z20  | 2K           | 20                                | 18.8...21.2 | 5           | 50                | 5           | 0.1                     | 15       |
| MM3Z22  | 2M           | 22                                | 20.8...23.3 | 5           | 55                | 5           | 0.1                     | 17       |
| MM3Z24  | 2N           | 24                                | 22.8...25.6 | 5           | 60                | 5           | 0.1                     | 19       |
| MM3Z27  | 2P           | 27                                | 25.1...28.9 | 2           | 70                | 2           | 0.1                     | 21       |
| MM3Z30  | 2R           | 30                                | 28...32     | 2           | 80                | 2           | 0.1                     | 23       |
| MM3Z33  | 2X           | 33                                | 31...35     | 2           | 80                | 2           | 0.1                     | 25       |
| MM3Z36  | 2Y           | 36                                | 34...38     | 2           | 90                | 2           | 0.1                     | 27       |
| MM3Z39  | 2Z           | 39                                | 37...41     | 2           | 100               | 2           | 0.1                     | 30       |
| MM3Z43  | 3A           | 43                                | 40...46     | 2           | 130               | 2           | 0.1                     | 33       |
| MM3Z47  | 3B           | 47                                | 44...50     | 2           | 150               | 2           | 0.1                     | 36       |
| MM3Z51  | 3C           | 51                                | 48...54     | 2           | 180               | 2           | 0.1                     | 39       |
| MM3Z56  | 3D           | 56                                | 52...60     | 2           | 200               | 2           | 0.1                     | 43       |
| MM3Z62  | 3E           | 62                                | 58...66     | 2           | 215               | 2           | 0.1                     | 47       |
| MM3Z68  | 3F           | 68                                | 64...72     | 2           | 240               | 2           | 0.1                     | 52       |
| MM3Z75  | 3H           | 75                                | 70...79     | 2           | 265               | 2           | 0.1                     | 56       |

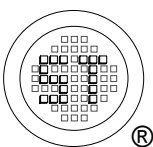
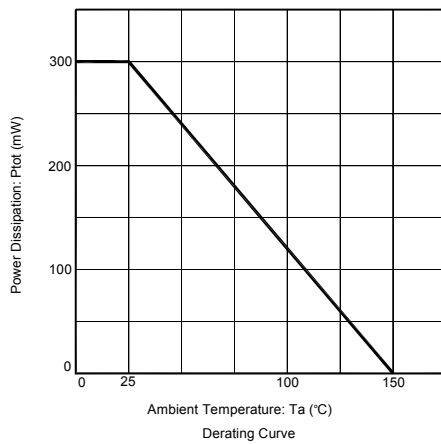
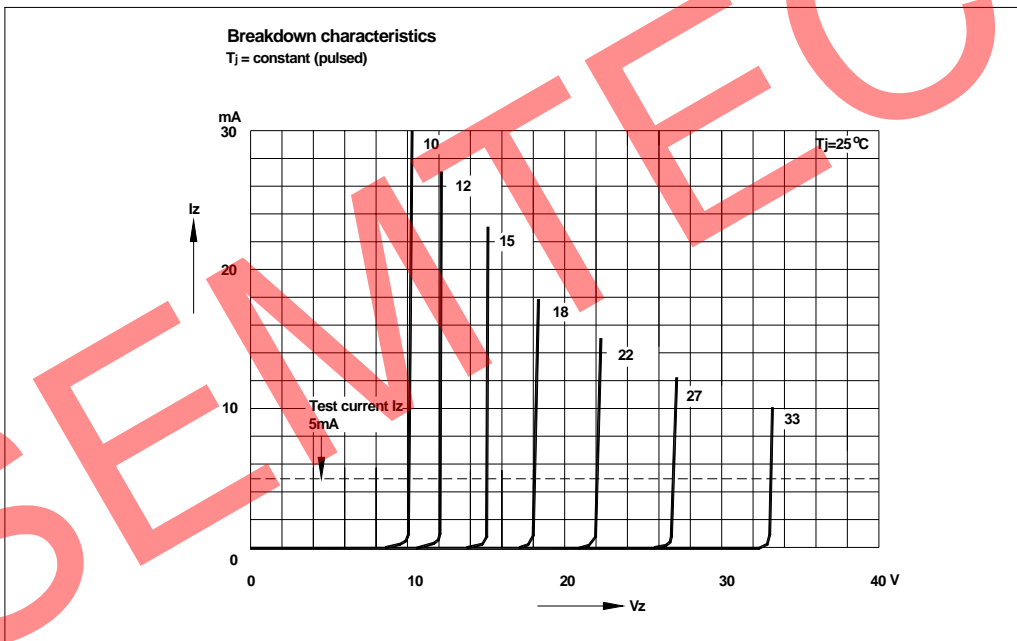
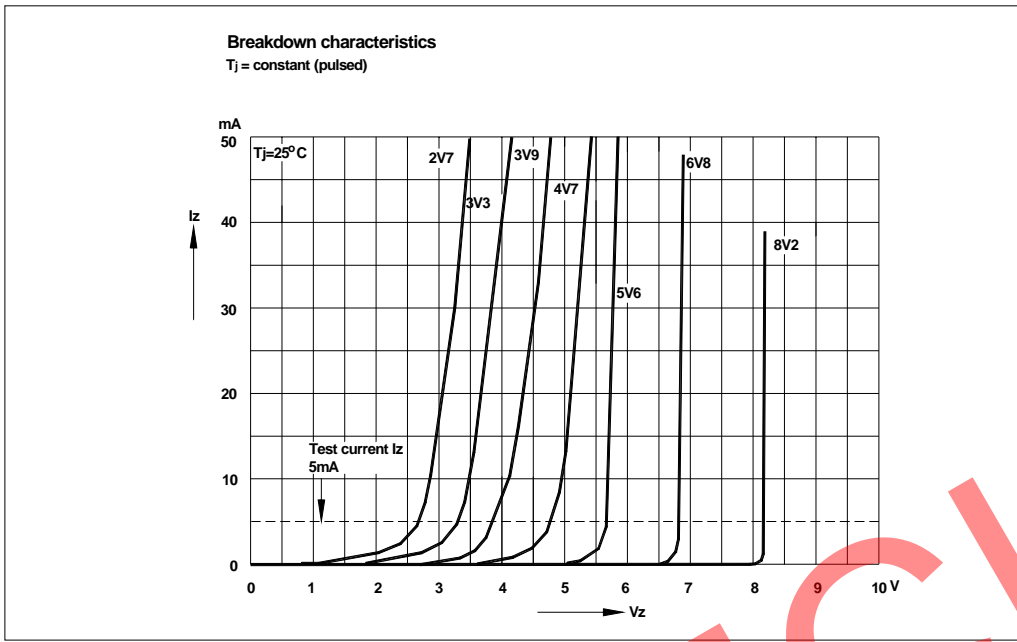
<sup>1)</sup>  $V_{ZT}$  is tested with pulses (20 ms).



**SEMTECH ELECTRONICS LTD.**  
Subsidiary of Sino-Tech International (BVI) Limited



# MM3Z2V0~MM3Z75



**SEMTECH ELECTRONICS LTD.**  
 Subsidiary of Sino-Tech International (BVI) Limited



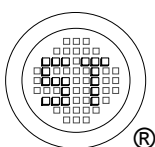
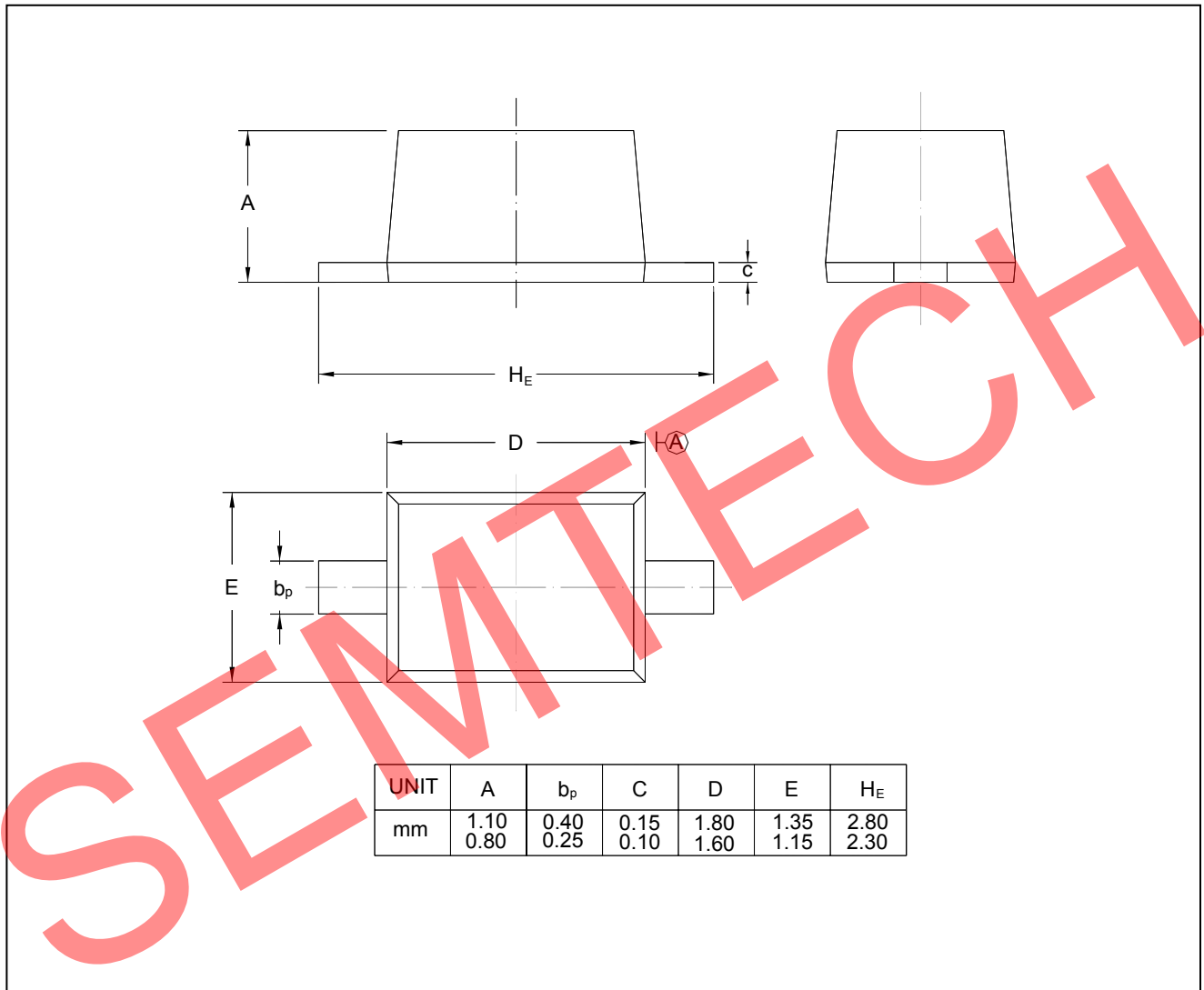
Dated: 01/12/2012 Rev: 01

# MM3Z2V0~MM3Z75

## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



**SEMTECH ELECTRONICS LTD.**  
Subsidiary of Sino-Tech International (BVI) Limited



Dated: 01/12/2012 Rev: 01

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Zener Diodes](#) category:*

*Click to view products by [Semtech](#) manufacturer:*

Other Similar products are found below :

[RKZ13B2KG#P1](#) [DL5234B](#) [EDZTE6113B](#) [1N4682](#) [1N4691](#) [1N4693](#) [1N4732A](#) [1N4736A](#) [1N4750A](#) [1N4759ARL](#) [1N5241B](#) [1N5365B](#)  
[1N5369B](#) [1N747A](#) [1N959B](#) [1N964B](#) [1N966B](#) [1N968B](#) [1N972B](#) [NTE5121A](#) [NTE5147A](#) [NTE5152A](#) [NTE5155A](#) [NTE5164A](#)  
[JANS1N4974US](#) [1N4692](#) [1N4700](#) [1N4702](#) [1N4704](#) [1N4711](#) [1N4714](#) [1N4737A](#) [1N4745ARL](#) [1N4752A](#) [1N4752ARL](#) [1N4760ARL](#)  
[1N5221B](#) [1N5236B](#) [1N5241BTR](#) [1N5242BTR](#) [1N5350B](#) [1N5352B](#) [1N961BRR1](#) [1N964BRL](#) [RKZ5.1BKU#P6](#) [3SMAJ5946B-TP](#)  
[3SMAJ5950B-TP](#) [3SMBJ5925B-TP](#) [441774C](#) [BZX84C3V9](#)