

## Silicon Planar zener diode

### FEATURES

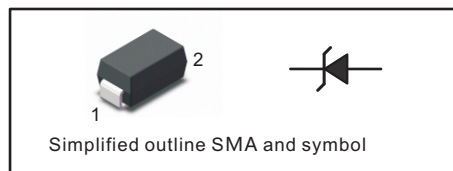
- Total power dissipation: Max. 1 W.
- Wide zener reverse voltage range 3.3V to 330V.
- Small plastic package suitable for surface mounted design.

### MECHANICAL DATA

- Case: SMA
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.055g / 0.002oz

### PINNING

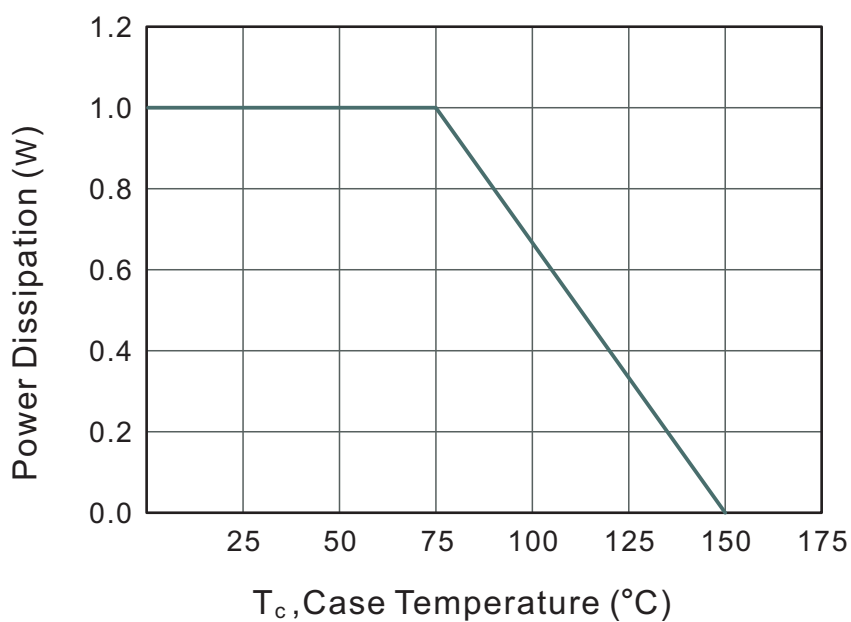
| PIN | DESCRIPTION |
|-----|-------------|
| 1   | Cathode     |
| 2   | Anode       |



### Absolute Maximum Ratings And Characteristics ( Ta = 25 °C )

| Parameter                                  | Symbol         | Value         | Unit |
|--|----------------|---------------|------|
| Power Dissipation at T <sub>c</sub> =75°C  | P <sub>D</sub> | 1             | W    |
| Forward Voltage at I <sub>F</sub> = 200 mA | V <sub>F</sub> | 1.2           | V    |
| Junction Temperature Range                 | T <sub>J</sub> | - 55 to + 150 | °C   |
| Storage Temperature Range                  | T <sub>s</sub> | - 55 to + 150 | °C   |

Fig.1 Maximum Continuous Power Derating



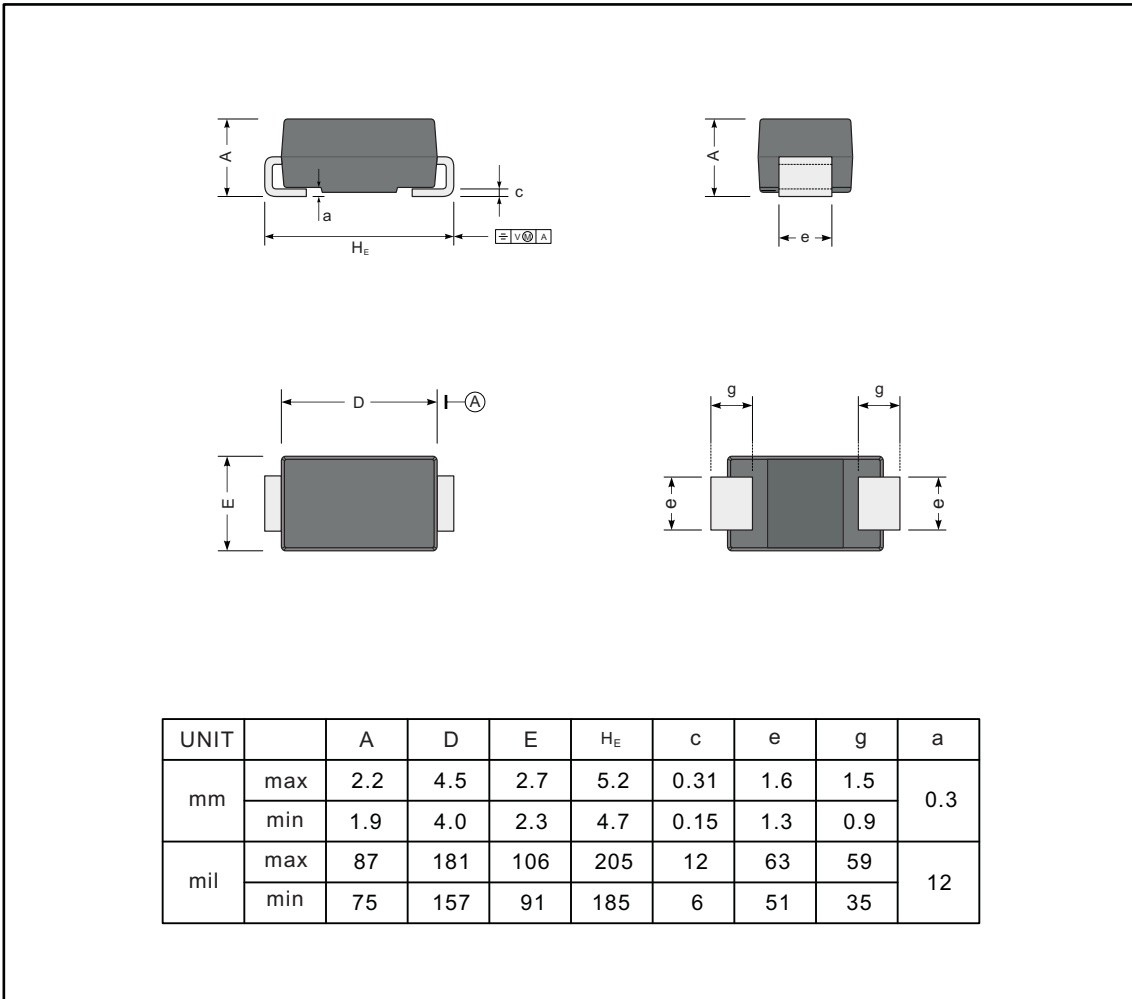
Characteristics at Ta = 25°C

| Type      | Marking | Zener Voltage Range <sup>(1)</sup>    |         |         | I <sub>ZT</sub><br>(mA) | Dynamic Impedance<br>Z <sub>ZT</sub> (at I <sub>ZT</sub> )<br>Max (Ω) | Reverse Current             |                          | Admissible Zener Current<br>I <sub>ZM</sub> (mA) |
|-----------|---------|---------------------------------------|---------|---------|-------------------------|---|-----------------------------|--------------------------|--|
|           |         | V <sub>ZT</sub> (at I <sub>ZT</sub> ) |         |         |                         |   | I <sub>R</sub><br>Max ( μA) | at V <sub>R</sub><br>(V) |  |
|           |         | Min (V)                               | Nom (V) | Max (V) |                         |   |                             |                          |  |
| 1SMA4728A | 728A    | 3.10                                  | 3.3     | 3.50    | 75                      | 10  | 100                         | 1                        | 285  |
| 1SMA4729A | 729A    | 3.40                                  | 3.6     | 3.80    | 69                      | 10  | 100                         | 1                        | 263  |
| 1SMA4730A | 730A    | 3.70                                  | 3.9     | 4.10    | 64                      | 9.0   | 50                          | 1                        | 243  |
| 1SMA4731A | 731A    | 4.06                                  | 4.3     | 4.56    | 58                      | 9.0   | 25                          | 1                        | 219  |
| 1SMA4732A | 732A    | 4.50                                  | 4.7     | 4.93    | 53                      | 8.0   | 10                          | 1                        | 203  |
| 1SMA4733A | 733A    | 4.84                                  | 5.1     | 5.36    | 49                      | 7.0   | 10                          | 1                        | 186  |
| 1SMA4734A | 734A    | 5.32                                  | 5.6     | 5.92    | 45                      | 5.0   | 10                          | 2                        | 170  |
| 1SMA4735A | 735A    | 5.86                                  | 6.2     | 6.51    | 41                      | 2.0   | 10                          | 3                        | 154  |
| 1SMA4736A | 736A    | 6.46                                  | 6.8     | 7.18    | 37                      | 3.5   | 10                          | 4                        | 140  |
| 1SMA4737A | 737A    | 7.12                                  | 7.5     | 7.88    | 34                      | 4.0   | 10                          | 5                        | 127  |
| 1SMA4738A | 738A    | 7.79                                  | 8.2     | 8.67    | 31                      | 4.5   | 10                          | 6                        | 116  |
| 1SMA4739A | 739A    | 8.60                                  | 9.1     | 9.59    | 28                      | 5.0   | 10                          | 7                        | 104  |
| 1SMA4740A | 740A    | 9.50                                  | 10      | 10.5    | 25                      | 7.0   | 10                          | 7                        | 95   |
| 1SMA4741A | 741A    | 10.4                                  | 11      | 11.6    | 23                      | 8.0   | 5                           | 8                        | 86   |
| 1SMA4742A | 742A    | 11.4                                  | 12      | 12.6    | 21                      | 9.0   | 5                           | 9                        | 79   |
| 1SMA4743A | 743A    | 12.4                                  | 13      | 14.1    | 19                      | 10  | 5                           | 10                       | 71   |
| 1SMA4744A | 744A    | 13.8                                  | 15      | 15.8    | 17                      | 14  | 5                           | 11                       | 63   |
| 1SMA4745A | 745A    | 15.2                                  | 16      | 17.1    | 16                      | 16  | 5                           | 12                       | 58   |
| 1SMA4746A | 746A    | 16.8                                  | 18      | 19.2    | 14                      | 20  | 5                           | 13                       | 52   |
| 1SMA4747A | 747A    | 19.0                                  | 20      | 21.2    | 13                      | 22  | 5                           | 15                       | 47   |
| 1SMA4748A | 748A    | 20.8                                  | 22      | 23.3    | 12                      | 23  | 5                           | 17                       | 43   |
| 1SMA4749A | 749A    | 22.8                                  | 24      | 26.0    | 11                      | 25  | 5                           | 18                       | 38   |
| 1SMA4750A | 750A    | 25.3                                  | 27      | 28.9    | 9.5                     | 35  | 5                           | 21                       | 35   |
| 1SMA4751A | 751A    | 28.2                                  | 30      | 32.0    | 8.5                     | 40  | 5                           | 23                       | 31   |
| 1SMA4752A | 752A    | 31.3                                  | 33      | 34.9    | 7.5                     | 45  | 5                           | 25                       | 28   |
| 1SMA4753A | 753A    | 34.2                                  | 36      | 37.9    | 7.0                     | 50  | 5                           | 27                       | 26   |
| 1SMA4754A | 754A    | 37.2                                  | 39      | 41.5    | 6.5                     | 60  | 5                           | 30                       | 24   |
| 1SMA4755A | 755A    | 40.9                                  | 43      | 45.6    | 6.0                     | 70  | 1                           | 32                       | 22   |
| 1SMA4756A | 756A    | 44.9                                  | 47      | 49.8    | 5.5                     | 80  | 1                           | 35                       | 20   |
| 1SMA4757A | 757A    | 48.6                                  | 51      | 54.0    | 5.0                     | 95  | 1                           | 38                       | 18   |
| 1SMA4758A | 758A    | 53.6                                  | 56      | 58.8    | 4.5                     | 110   | 1                           | 42                       | 17   |
| 1SMA4759A | 759A    | 58.9                                  | 62      | 65.6    | 4.0                     | 125   | 1                           | 47                       | 15   |
| 1SMA4760A | 760A    | 64.6                                  | 68      | 71.7    | 3.7                     | 150   | 1                           | 52                       | 14   |
| 1SMA4761A | 761A    | 71.2                                  | 75      | 78.8    | 3.3                     | 175   | 1                           | 56                       | 12   |
| 1SMA4762A | 762A    | 77.9                                  | 82      | 87.0    | 3.0                     | 200   | 1                           | 62                       | 11   |
| 1SMA4763A | 763A    | 86.0                                  | 91      | 96.0    | 2.8                     | 250   | 1                           | 69                       | 10   |
| 1SMA4764A | 764A    | 95.0                                  | 100     | 105     | 2.5                     | 350   | 1                           | 76                       | 9.5  |
| 1SMA4765A | 765A    | 104                                   | 110     | 116     | 2.3                     | 450   | 1                           | 84                       | 8.6  |
| 1SMA4766A | 766A    | 114                                   | 120     | 127     | 2.0                     | 550   | 1                           | 91                       | 7.8  |
| 1SMA4767A | 767A    | 125                                   | 135     | 142     | 1.9                     | 700   | 1                           | 100                      | 7.0  |
| 1SMA4768A | 768A    | 140                                   | 150     | 157     | 1.7                     | 900   | 1                           | 110                      | 6.3  |
| 1SMA4769A | 769A    | 155                                   | 165     | 172     | 1.6                     | 1100  | 1                           | 120                      | 5.8  |
| 1SMA4770A | 770A    | 170                                   | 180     | 191     | 1.4                     | 1200  | 1                           | 135                      | 5.2  |
| 1SMA4771A | 771A    | 189                                   | 200     | 211     | 1.2                     | 1400  | 1                           | 150                      | 4.7  |
| 1SMA4772A | 772A    | 209                                   | 220     | 231     | 1.0                     | 1600  | 1                           | 165                      | 4.3  |
| 1SMA4773A | 773A    | 229                                   | 240     | 251     | 1.0                     | 1800  | 1                           | 180                      | 3.9  |
| 1SMA4774A | 774A    | 249                                   | 260     | 271     | 1.0                     | 2000  | 1                           | 190                      | 3.7  |
| 1SMA4775A | 775A    | 269                                   | 280     | 291     | 1.0                     | 2100  | 1                           | 205                      | 3.4  |
| 1SMA4776A | 776A    | 289                                   | 300     | 315     | 1.0                     | 2300  | 1                           | 230                      | 3.1  |
| 1SMA4777A | 777A    | 313                                   | 330     | 346     | 1.0                     | 2500  | 1                           | 250                      | 2.8  |

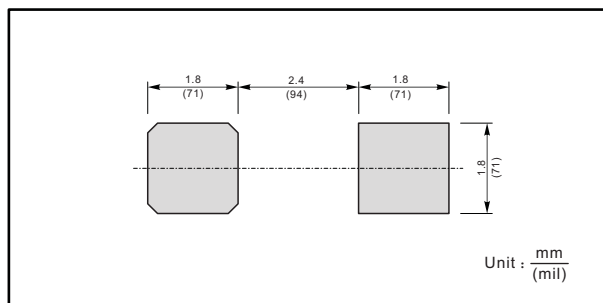
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



### The recommended mounting pad size



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