



**1SMAF4728A~1SMAF4777A**  
Rev.F May.-2019

# 1SMAF4728A~1SMAF4777A

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## / Electrical Characteristics(Ta=25 )

| Type       | Marking | Zener Voltage Range <sup>1</sup>   |         |         |                 | Dynamic Impedance                  | Reverse Current |                   | Admissible Zener Current |
|------------|---------|------------------------------------|---------|---------|-----------------|------------------------------------|-----------------|-------------------|--------------------------|
|            |         | V <sub>ZT</sub> at I <sub>ZT</sub> |         |         | I <sub>ZT</sub> | Z <sub>ZT</sub> at I <sub>ZT</sub> | I <sub>R</sub>  | at V <sub>R</sub> |                          |
|            |         | Min (V)                            | Nom (V) | Max (V) | mA              | Max (Ω)                            | Max μ A         | V                 | I <sub>ZM</sub> (mA)     |
| 1SMAF4744A | 744A    | 13.8                               | 15      | 15.8    | 17              | 14                                 | 5               | 11                | 63                       |
| 1SMAF4745A | 745A    | 15.2                               | 16      | 17.1    | 16              | 16                                 | 5               | 12                | 58                       |
| 1SMAF4746A | 746A    | 16.8                               | 18      | 19.2    | 14              | 20                                 | 5               | 13                | 52                       |
| 1SMAF4747A | 747A    | 19.0                               | 20      | 21.2    | 13              | 22                                 | 5               | 15                | 47                       |
| 1SMAF4748A | 748A    | 20.8                               | 22      | 23.3    | 12              | 23                                 | 5               | 17                | 43                       |
| 1SMAF4749A | 749A    | 22.8                               | 24      | 26.0    | 11              | 25                                 | 5               | 18                | 38                       |
| 1SMAF4750A | 750A    | 25.3                               | 27      | 28.9    | 9.5             | 35                                 | 5               | 21                | 35                       |
| 1SMAF4751A | 751A    | 28.2                               | 30      | 32.0    | 8.5             | 40                                 | 5               | 23                | 31                       |
| 1SMAF4752A | 752A    | 31.3                               | 33      | 34.9    | 7.5             | 45                                 | 5               | 25                | 28                       |
| 1SMAF4753A | 753A    | 34.2                               | 36      | 37.9    | 7.0             | 50                                 | 5               | 27                | 26                       |
| 1SMAF4754A | 754A    | 37.2                               | 39      | 41.5    | 6.5             | 60                                 | 5               | 30                | 24                       |
| 1SMAF4755A | 755A    | 40.9                               | 43      | 45.6    | 6.0             | 70                                 | 1               | 32                | 22                       |
| 1SMAF4756A | 756A    | 44.9                               | 47      | 49.8    | 5.5             | 80                                 | 1               | 35                | 20                       |
| 1SMAF4757A | 757A    | 48.6                               | 51      | 54.0    | 5.0             | 95                                 | 1               | 38                | 18                       |
| 1SMAF4758A | 758A    | 53.6                               | 56      | 58.8    | 4.5             | 110                                | 1               | 42                | 17                       |
| 1SMAF4759A | 759A    | 58.9                               | 62      | 65.6    | 4.0             | 125                                | 1               | 47                | 15                       |
| 1SMAF4760A | 760A    | 64.6                               | 68      | 71.7    | 3.7             | 150                                | 1               | 52                | 14                       |
| 1SMAF4761A | 761A    | 71.2                               | 75      | 78.8    | 3.3             | 175                                | 1               | 56                | 12                       |
| 1SMAF4762A | 762A    | 77.9                               | 82      | 87.0    | 3.0             | 200                                | 1               | 62                | 11                       |
| 1SMAF4763A | 763A    | 86.0                               | 91      | 96.0    | 2.8             | 250                                | 1               | 69                | 10                       |
| 1SMAF4764A | 764A    | 95.0                               | 100     | 105     | 2.5             | 350                                | 1               | 76                | 9.5                      |
| 1SMAF4765A | 765A    | 104                                | 110     | 116     | 2.3             | 450                                | 1               | 84                | 8.6                      |
| 1SMAF4766A | 766A    | 114                                | 120     | 127     | 2.0             | 550                                | 1               | 91                | 7.8                      |
| 1SMAF4767A | 767A    | 125                                | 135     | 142     | 1.9             | 700                                | 1               | 100               | 7.0                      |

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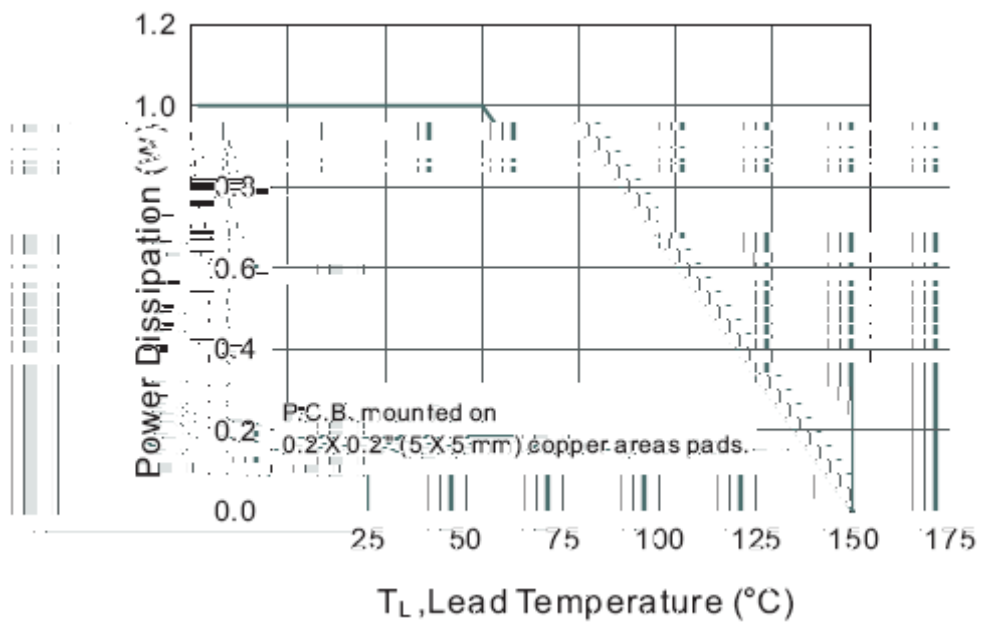
## / Electrical Characteristics(Ta=25 °C)

| Type       | Marking | Zener Voltage Range <sup>1</sup>   |         |         |                 | Dynamic Impedance                  | Reverse Current |                   | Admissible Zener Current |
|------------|---------|------------------------------------|---------|---------|-----------------|------------------------------------|-----------------|-------------------|--------------------------|
|            |         | V <sub>ZT</sub> at I <sub>ZT</sub> |         |         | I <sub>ZT</sub> | Z <sub>ZT</sub> at I <sub>ZT</sub> | I <sub>R</sub>  | at V <sub>R</sub> |                          |
|            |         | Min (V)                            | Min (V) | Min (V) | mA              | Max (Ω)                            | Max μ A         | V                 | I <sub>ZM</sub> (mA)     |
| 1SMAF4768A | 768A    | 140                                | 150     | 157     | 1.7             | 900                                | 1               | 110               | 6.3                      |
| 1SMAF4769A | 769A    | 155                                | 165     | 172     | 1.6             | 1100                               | 1               | 120               | 5.8                      |
| 1SMAF4770A | 770A    | 170                                | 180     | 191     | 1.4             | 1200                               | 1               | 135               | 5.2                      |
| 1SMAF4771A | 771A    | 189                                | 200     | 211     | 1.2             | 1400                               | 1               | 150               | 4.7                      |
| 1SMAF4772A | 772A    | 209                                | 220     | 231     | 1.0             | 1600                               | 1               | 165               | 4.3                      |
| 1SMAF4773A | 773A    | 229                                | 240     | 251     | 1.0             | 1800                               | 1               | 180               | 3.9                      |
| 1SMAF4774A | 774A    | 249                                | 260     | 271     | 1.0             | 2000                               | 1               | 190               | 3.7                      |
| 1SMAF4775A | 775A    | 269                                | 280     | 291     | 1.0             | 2100                               | 1               | 205               | 3.4                      |
| 1SMAF4776A | 776A    | 289                                | 300     | 315     | 1.0             | 2300                               | 1               | 230               | 3.1                      |
| 1SMAF4777A | 777A    | 313                                | 330     | 346     | 1.0             | 2500                               | 1               | 250               | 2.8                      |

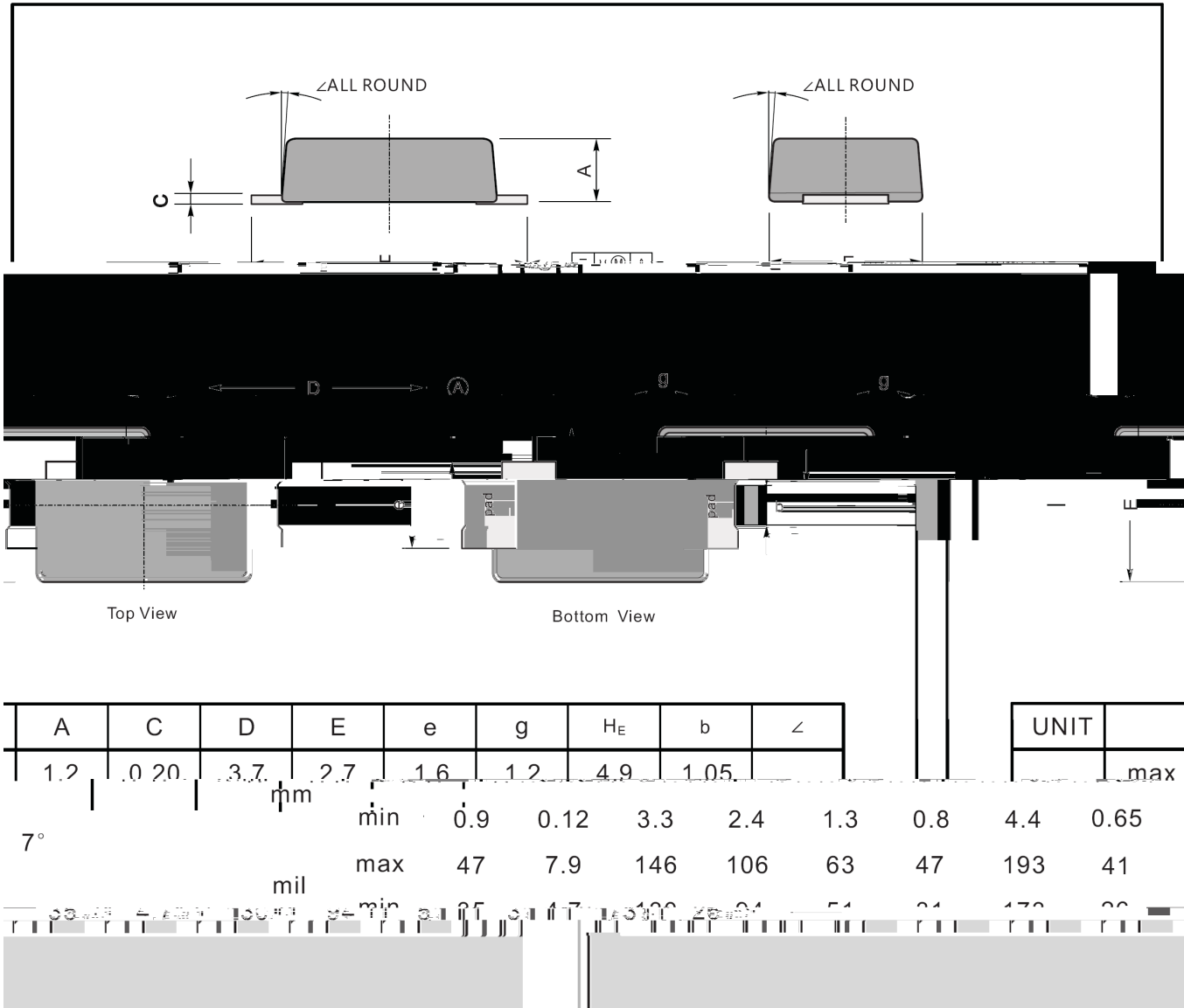
Note:

- 1 V<sub>ZT</sub> is tested with pulses (20 ms)

## / Electrical Characteristic Curve



/ Package Dimensions



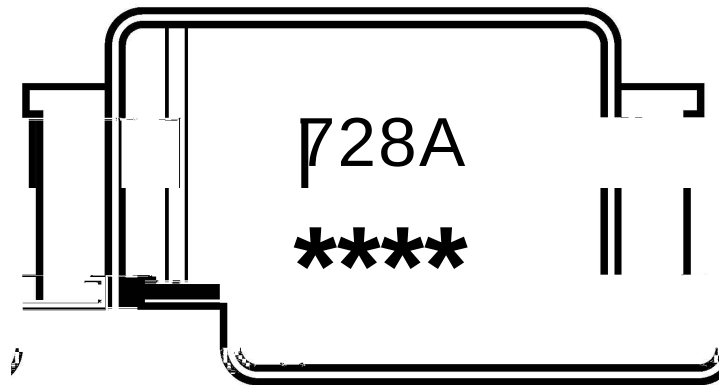
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## / Marking Instructions

| Type number | Marking |
|-------------|---------|
| 1SMAF4728A  | 728A    |
| 1SMAF4729A  | 729A    |
| 1SMAF4730A  | 730A    |
| 1SMAF4731A  | 731A    |
| 1SMAF4732A  | 732A    |
| 1SMAF4733A  | 733A    |
| 1SMAF4734A  | 734A    |
| 1SMAF4735A  | 735A    |
| 1SMAF4736A  | 736A    |
| 1SMAF4737A  | 737A    |
| 1SMAF4738A  | 738A    |
| 1SMAF4739A  | 739A    |
| 1SMAF4740A  | 740A    |
| 1SMAF4741A  | 741A    |
| 1SMAF4742A  | 742A    |
| 1SMAF4743A  | 743A    |
| 1SMAF4744A  | 744A    |
| 1SMAF4745A  | 745A    |
| 1SMAF4746A  | 746A    |
| 1SMAF4747A  | 747A    |
| 1SMAF4748A  | 748A    |
| 1SMAF4749A  | 749A    |
| 1SMAF4750A  | 750A    |
| 1SMAF4751A  | 751A    |
| 1SMAF4752A  | 752A    |
| 1SMAF4753A  | 753A    |
| 1SMAF4754A  | 754A    |
| 1SMAF4755A  | 755A    |
| 1SMAF4756A  | 756A    |
| 1SMAF4757A  | 757A    |
| 1SMAF4758A  | 758A    |
| 1SMAF4759A  | 759A    |
| 1SMAF4760A  | 760A    |
| 1SMAF4761A  | 761A    |
| 1SMAF4762A  | 762A    |
| 1SMAF4763A  | 763A    |
| 1SMAF4764A  | 764A    |
| 1SMAF4765A  | 765A    |
| 1SMAF4766A  | 766A    |
| 1SMAF4767A  | 767A    |
| 1SMAF4768A  | 768A    |
| 1SMAF4769A  | 769A    |
| 1SMAF4770A  | 770A    |
| 1SMAF4771A  | 771A    |
| 1SMAF4772A  | 772A    |
| 1SMAF4773A  | 773A    |
| 1SMAF4774A  | 774A    |
| 1SMAF4775A  | 775A    |
| 1SMAF4776A  | 776A    |
| 1SMAF4777A  | 777A    |

/ Marking Instructions



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1 \*

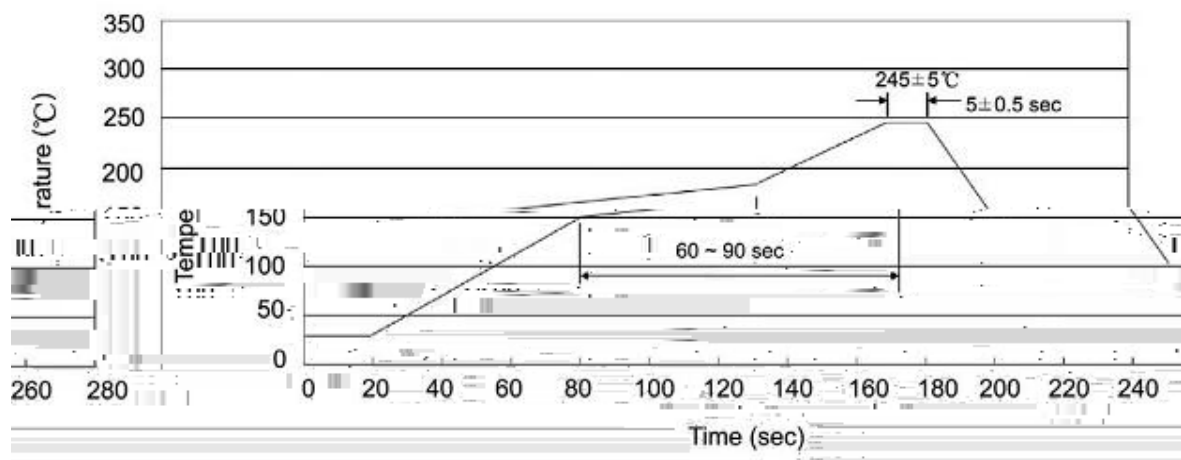
3 \*

Note:

728A Product Type Code

\*\*\*\* Lot No. Code The 1st \* means:YM Code The last 3 \* means:little Lot No Code

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- |   |       |     |           |        |                                         |
|---|-------|-----|-----------|--------|-----------------------------------------|
| 1 | 150   | 180 | 60        | 90sec; | 1.Preheating:150~180 , Time:60~90sec.   |
| 2 | 245±5 |     | 5±0.5sec; |        | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 |       | 2   | 10        | /sec.  | 3. Cooling Speed: 2~10 /sec.            |

/ Resistance to Soldering Heat Test Conditions

260±5                      10±1 sec.                      Temp.:260±5                      Time:10±1 sec

/ Packaging SPEC.

/ REEL

| Package Type | Units      |                 |                 |                       |                 | Dimension (unit mm <sup>3</sup> ) |             |             |
|--------------|------------|-----------------|-----------------|-----------------------|-----------------|-----------------------------------|-------------|-------------|
|              | Units/Reel | Reels/Inner Box | Units/Inner Box | Inner Boxes/Outer Box | Units/Outer Box | Reel                              | Inner Box   | Outer Box   |
| SMAF         | 3000       | 5               | 15000           | 5                     | 75000           | 7 ×11                             | 185X180X105 | 390X385X205 |

/ Notices