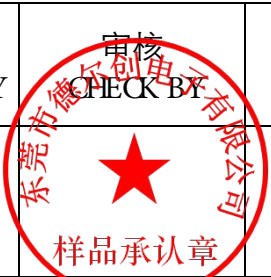


规格书
SPECIFICATION

| | |
|----------------------|--------------------------|
| 客户 CUSTOMER | 立创 |
| 客户料号 CUSTOMER P/N | |
| 规格描述 DESCRIPTION | ZNR-25N241K/F20.5/L15/绿色 |
| 产品编码 PART NUMBER | 3-ZNR-25N241K-P20.5 |
| 日期 DATE | 2024-07-25 |

| 德尔创承认栏 APPROVED BY DERSONIC | | | 客户承认栏 APPROVED BY CUSTOMER | |
|--------------------------------|---|--------------------|-------------------------------|----------------|
| 批准 APPROVED BY | 审核 CHECK BY | 制订 FORMULATE BY | 批准 APPROVED BY | 审核 CHECK BY |
| |  | | | |

东莞市德尔创电子有限公司

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Website: <http://www.dersonic.com>

| | | |
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| | | DATE: 2024年1月5日 |

1.OUTLINE

| | | |
|-----|------------|--|
| 1.1 | APPEARANCE | WITHOUT ANY CRACK, MARKING SHOULD BE CLEAR |
| 1.2 | DIMENSIONS | DIMENSIONS (mm) |

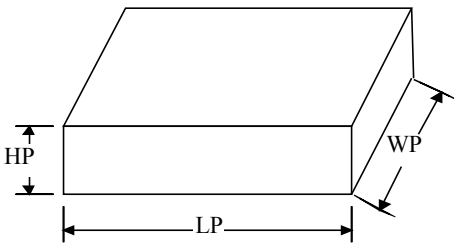
| | | |
|--|--------------|-------|
| | D (max) | 29 |
| | H (max) | 32 |
| | E(max) | 11.5 |
| | d (±0.05) | 1.0 |
| | F (±1.5) | 20.5 |
| | L(Min.) | 15 |
| | Epoxy Colour | Green |

2.ELETRICAL PARAMETER

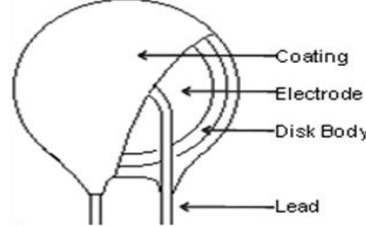
| | | | |
|------|---|--------------------|---|
| 2.1 | MAX ALLOWABLE VOLTAGE | AC: 150(V) | At 1mA DC |
| | | DC: 200(V) | |
| 2.2 | VARISTOR VOLTAGE | 216-264(V) | V0.1mA □ V1mA ■ |
| 2.3 | RATED WATTAGE | 1.2(W) | |
| 2.4 | MAX CLAMPING VOLTAGE | IP: 150(A) | Test Current Waveform 8/20 μs |
| | | Vc: 395(V) | |
| 2.5 | WITHSTANDING SURGE CURRENT | 15000A | Test Current Waveform 8/20μs |
| 2.6 | MAX ENERGY | 255(J) | Test Current Waveform 10/1000 μs |
| 2.7 | TYPICAL CAPACITANCE | 2650(pf) | @1KHz |
| 2.8 | LEAKAGE CURRENT | ≅ 30 (μA) | At 80% of Varistor Voltage |
| 2.9 | NONLINEAR EXPONENT (α) | ≅ 20 | $\alpha = \log \frac{I_1}{I_2} / \log \frac{V_1}{V_2}$ |
| 2.10 | TEMPERATURE COEFFICIENT OF VARISTOR VOLTAGE | ≅ ±0.05%/°C max | $\frac{V_{c85^{\circ}\text{C}} - V_{c25^{\circ}\text{C}}}{V_{c25^{\circ}\text{C}}} \times \frac{1}{60} \times 100(\% / ^{\circ}\text{C})$ |
| 2.11 | IMPULSE LIFE | ≅ ±10%(V1mA) | Test Current Waveform 8/20 μs |

| | | |
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3.PACKING

| | | | | |
|-----|-------------------|---|----------|--------|
| 3.1 | Quantity | 100PCS | | |
| 3.2 | Packing Dimension |  | LP | 252max |
| | | | HP | 66 max |
| | | | WP | 160max |
| | | | Unit: mm | |

4.MATERIAL LIST

| | | |
|-----|---------|--|
| 4.1 | Drawing |  |
|-----|---------|--|

| | | | | |
|-----|---------------------|-----------|--------------------------|---|
| 4.2 | Material Chart RoHs | Item | Composition | Manufacturer |
| | | Coating | Epoxy Resin | Made in China, and in line with the UL 94-V0 testing, meet the environmental requirements |
| | | Lead | Cp/Cu wire | Made in China, meet the environmental requirements |
| | | Electrode | Silver | Made in China, meet the environmental requirements |
| | | Disk | Zinc Oxide | Zip Over LLC |
| | | Solder | Sn:96.5%CU 0.5%Ag3.0% | Made in China, meet the environmental requirements |

5. MARKING CODE

ZNR
25N241K
XXX

NOTE: XXX is the Production cycle and internal identification code

| | | |
|----------|---------------------|----------------------|
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6.MECHANICAL REQUIREMENTS

| | | | |
|-----|------------------------------|--|---|
| 6.1 | Tensile of Terminations | No Outstanding Damage | 2.0Kgf; 10Sec. |
| 6.2 | Bending of Terminations | No Outstanding Damage | 1.0Kgf; 90° ,3 Times |
| 6.3 | Vibration | No Outstanding Damage | Freq:10-55hz;Amp:0.75mm,1Min |
| 6.4 | Solderability | Min. 95% of The Terminal Should Be Covered With Solder Uniformly | Solder Temp:265±5°C Immersed Time: ≤5Sec. |
| 6.5 | Resistance of soldering heat | △ V1mA/V1mA ≅±5% | Solder Temp: 265±5°C Immersed Time: 10±1Sec. |

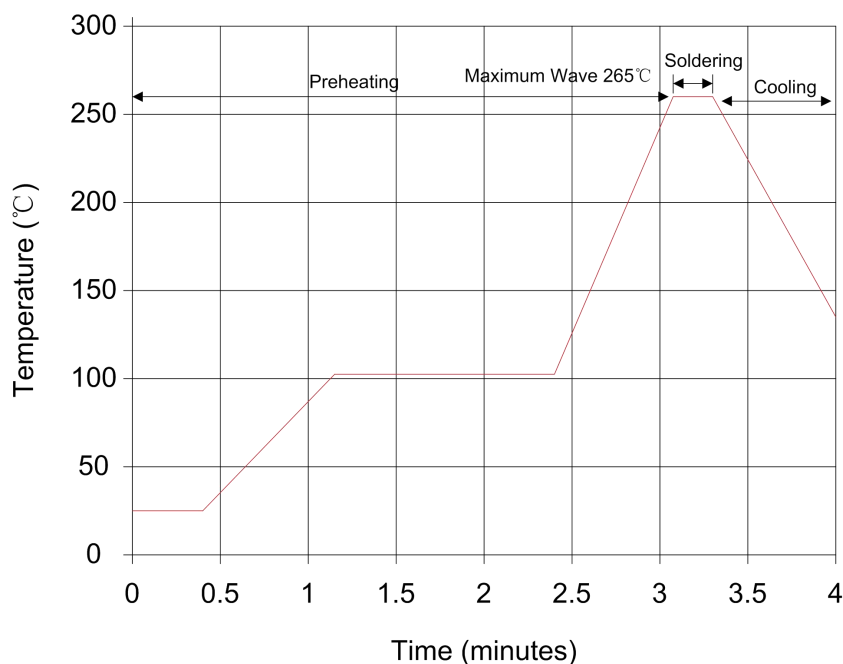
7.ENVIRONMENTAL REQUIREMENTS

| | | | | | |
|------|---------------------------------|---------------------|--|------------------|--------------|
| 7.1 | High Temperature Storage | △V1mA/V1mA ≅±5% | Ambient Temp: 85±2°C Duration:1000h | | |
| 7.2 | Low Temperature Storage | △V1mA/V1mA ≅±5% | Ambient Temp: -40±2°C Duration:1000h | | |
| 7.3 | High Humidity Storage/Damp Heat | △V1mA/V1mA ≅±5% | Ambient Temp: 40±2°C 90-95% R.H. Duration:1000h | | |
| 7.4 | Temperature Cycle | △V1mA/V1mA ≅±5% | Step | Temperature (°C) | Period (min) |
| | | | 1 | -40±3 | 30 ±3 |
| | | | 2 | Room Temp | 15 ±3 |
| | | | 3 | 85±3 | 30 ±3 |
| 4 | Room Temp | 15 ±3 | | | |
| 7.5 | High Temperature Load | △V1mA/V1mA ≅±10% | Ambient temp:85±2°C Duration:1000h Load: MAX. Allowable Voltage | | |
| 7.6 | High Humidity Load | △V1mA/V1mA ≅±10% | Ambient Temp: 40±2°C 90-95%R.H.Duration:1000H Load: MAX. Allowable Voltage | | |
| 7.7 | Operating Temperature Range | | -40°C ~ +85°C | | |
| 7.8 | Storage Temperature Range | | -40°C ~ +85°C | | |
| 7.9 | Fuse temperature (Tf) | | 136°C | | |
| 7.10 | Public frequency current | | 15A/16A | | |

| | | |
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| | | |

Soldering Recommendation

Wave Lead Free Soldering Recommendation



| Item | Conditions |
|------------------|-------------------|
| Peak Temperature | 265°C |
| Dipping Time | 10 seconds (max.) |
| Soldering | 1 time |

Recommendation Reworking Conditions with Soldering Iron

| Item | Conditions |
|-----------------------------------|------------------|
| Temperature of Soldering Iron-tip | 360°C (max.) |
| Soldering Time | 3 seconds (max.) |
| Distance from Varistor | 2mm (min.) |

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