

SEA&LAND ELECTRONIC CORP.

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Techfuse
PTC Devices
Resettable Fuse

PRODUCT: nSMD series
DOCUMENT: QR0429
ECN NO.:
REV LETTER:
REV DATE: 2011-3-16
PAGE NO.: 1 of 1

Specification Sheet

Terminal Pad Solderability:
Meets EIA Specification RS186-9E
And ANSI/J-STD-002 Category 3.

Terminal Pad Materials:
Tin-plated Nickel-Copper

Lead-Free, RoHS Compliant

Marking:

Part Identification
nSMD005 = α Z

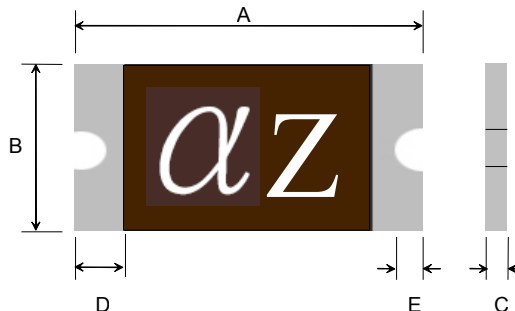


TABLE I. DIMENSIONS:

| Model | Marking | A | | B | | C | | D | E |
|---------------|---------|------|------|------|------|------|------|------|------|
| | | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Min. |
| nSMD005 | α Z | 3.00 | 3.50 | 1.50 | 1.80 | 0.60 | 1.10 | 0.15 | 0.10 |
| nSMD010 | α N | 3.00 | 3.50 | 1.50 | 1.80 | 0.60 | 1.10 | 0.15 | 0.10 |
| nSMD020 | α A | 3.00 | 3.50 | 1.50 | 1.80 | 0.40 | 0.90 | 0.15 | 0.10 |
| nSMD025 | α A | 3.00 | 3.50 | 1.50 | 1.80 | 0.40 | 0.90 | 0.15 | 0.10 |
| nSMD035 | α B | 3.00 | 3.50 | 1.50 | 1.80 | 0.40 | 0.90 | 0.15 | 0.10 |
| nSMD050 | α F | 3.00 | 3.50 | 1.50 | 1.80 | 0.35 | 0.85 | 0.15 | 0.10 |
| nSMD050-13.2V | α F | 3.00 | 3.50 | 1.50 | 1.80 | | | 0.15 | 0.10 |
| nSMD075 | α G | 3.00 | 3.50 | 1.50 | 1.80 | 0.30 | 0.80 | 0.15 | 0.10 |
| nSMD075-双层 | α G | 3.00 | 3.50 | 1.50 | 1.80 | 0.50 | 1.20 | 0.15 | 0.10 |
| nSMD100 | α H | 3.00 | 3.50 | 1.50 | 1.80 | 0.40 | 0.80 | 0.15 | 0.10 |
| nSMD110 | α H | 3.00 | 3.50 | 1.50 | 1.80 | 0.40 | 0.80 | 0.15 | 0.10 |
| nSMD150 | α I | 3.00 | 3.50 | 1.50 | 1.80 | 0.50 | 1.20 | 0.15 | 0.10 |
| nSMD200 | α k | 3.00 | 3.50 | 1.50 | 1.80 | 0.50 | 1.20 | 0.15 | 0.10 |

Unit:mm

TABLE II. PERFORMANCE RATINGS:

| Model | Marking | V _{max} (Vdc) | I _{max} (A) | I _{hold} @25°C (A) | I _{trip} @25°C (A) | P _d Typ. (W) | Maximum Time To Trip | | Resistance | | |
|---------------|---------|---------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------|-------------------------|---------------|--------------------------|--------------------------|---------------------------|
| | | | | | | | Current (A) | Time (Sec) | R _{Imin} (Ω) | R _{Ityp} (Ω) | R _{I1max} (Ω) |
| nSMD005 | α Z | 60 | 100 | 0.05 | 0.15 | 0.4 | 0.25 | 1.5 | 3.600 | 10.000 | 50.000 |
| nSMD010 | α N | 60.0 | 100 | 0.10 | 0.25 | 0.4 | 0.5 | 1.00 | 1.600 | 6.000 | 15.000 |
| nSMD020 | α A | 30.0 | 100 | 0.20 | 0.40 | 0.6 | 8.0 | 0.08 | 0.350 | 0.480 | 2.500 |
| nSMD025 | α A | 16.0 | 100 | 0.25 | 0.50 | 0.6 | 8.0 | 0.08 | 0.350 | 0.480 | 2.500 |
| nSMD035 | α B | 6.0 | 100 | 0.35 | 0.75 | 0.6 | 8.0 | 0.10 | 0.250 | 0.380 | 1.300 |
| nSMD050 | α F | 6.0 | 100 | 0.50 | 1.00 | 0.6 | 8.0 | 0.10 | 0.150 | 0.300 | 0.700 |
| nSMD050-13.2V | α F | 13.2 | 100 | 0.50 | 1.00 | 0.6 | 8.0 | 0.10 | 0.150 | 0.300 | 0.700 |
| nSMD075 | α G | 6.0 | 100 | 0.75 | 1.50 | 0.6 | 8.0 | 0.20 | 0.090 | 0.160 | 0.500 |
| nSMD100 | α H | 6.0 | 100 | 1.00 | 1.80 | 0.6 | 8.0 | 0.30 | 0.055 | 0.100 | 0.270 |
| nSMD110 | α H | 6.0 | 100 | 1.10 | 2.20 | 0.6 | 8.0 | 0.30 | 0.050 | 0.100 | 0.250 |
| nSMD150 | α I | 6.0 | 100 | 1.50 | 3.00 | 0.8 | 8.0 | 1.00 | 0.040 | 0.070 | 0.130 |
| nSMD200 | α k | 6.0 | 100 | 2.00 | 3.50 | 0.8 | 8.0 | 1.50 | 0.018 | 0.070 | 0.080 |

Order Information

Packaging

| SMD1206 | 200 | Tape & Reel Quantity |
|---------------------------|-----------------|---------------------------------------|
| Product name | Hold Max | 005,010,075(双层),150,200 3500 pcs/reel |
| Size 3216 mm / 1206 mils | Current voltage | 020,025,035,050,075,100 5000 pcs/reel |
| SMD: surface mount device | 2.00A | |

Recognition: SMD0805-020~110 : UL Approved.
SMD0805-010, 125 : UL Pending.

E201504/E319079 SMD0805-100:TÜV, Approved.R50141892

