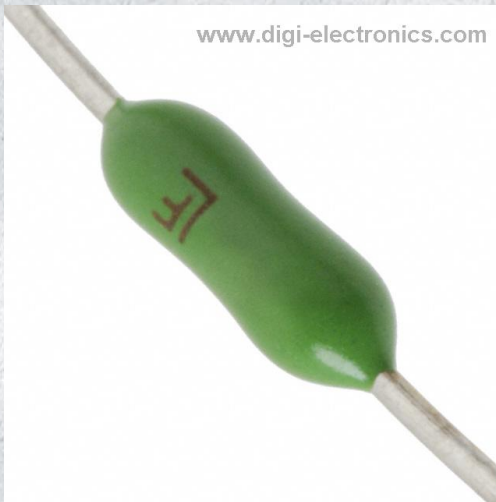


0251015.NRT1L Datasheet



<https://www.DiGi-Electronics.com>

| | |
|------------------------------|---|
| DiGi Electronics Part Number | 0251015.NRT1L-DG |
| Manufacturer | Littelfuse Inc. |
| Manufacturer Product Number | 0251015.NRT1L |
| Description | FUSE BRD MNT 15A 32VAC 32VDC AXL |
| Detailed Description | 15 A 32 V AC 32 V DC Fuse Board Mount (Cartridge Style Excluded) Through Hole Axial |

This model 0251015NRT1L is available at DiGi Electronics.

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Purchase and inquiry

Manufacturer Product Number:

0251015.NRT1L

Series:

PICO® II 251

Mounting Type:

Through Hole

Current Rating (Amps):

15 A

Voltage Rating - DC:

32 V

Package / Case:

Axial

Melting I²t:

68.8

Operating Temperature:

-55°C ~ 125°C

Size / Dimension:

0.110" Dia x 0.280" L (2.80mm x 7.11mm)

Manufacturer:

Littelfuse Inc.

Product Status:

Active

Fuse Type:

Board Mount (Cartridge Style Excluded)

Voltage Rating - AC:

32 V

Response Time:

Fast Blow

Breaking Capacity @ Rated Voltage:

50A AC, 300A DC

Approval Agency:

CSA, cURus

Color:

-

DC Cold Resistance:

0.00446 Ohms

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8536.10.0040

Moisture Sensitivity Level (MSL):

Not Applicable

ECCN:

EAR99

251 Series

PICO® II Very Fast-Acting Fuse



Description

The PICO® II Very Fast-Acting Fuse is designed to meet an extensive array of performance characteristics in a space-saving subminiature package.

Features and Benefits

- Very fast-acting
- Small size
- Wide current rating range (0.062A- 15A)
- Halogen-free available
- Wide operating temperature range
- Low temperature re-rating

Applications

Secondary protection for space constrained applications

- Flat-panel display TV
- LCD monitor
- LCD backlight inverter
- Office machines
- Power supply
- Audio/Video system
- Lighting system
- Medical equipment

Web Resources



Download ECAD models, order samples, and find technical resources at www.littelfuse.com/251

Agency Approvals

| Agency | Agency File/Certificate Number | Ampere Range |
|--------|--------------------------------|----------------------------------|
| | 251 Series | |
| CE | N/A | 0.062A - 15A |
| UK CA | N/A | 0.062A - 15A |
| cRU us | E10480 | 0.062A - 15A |
| SP | 29862 | 0.062A - 15A |
| PSE | PSE_NBK200416-JP1021 | 1A - 5A |
| △ | J50158379 | 0.500A - 10A |
| CCC | 2020970207000061 | 0.500A, 1A, 2A, 2.5A, 3A, 4A, 5A |

Note: See Electrical Specifications by Item table for specific approved ratings.

Electrical Characteristics for Series

| % of Ampere Rating | Ampere Rating | Opening Time |
|--------------------|----------------------------------|------------------|
| 100% | 0.062A - 15A | 4 Hours, Min. |
| | 0.062A - 7A | 1 Second, Max. |
| 200% | 10A | 3 Seconds, Max. |
| | 12 - 15A | 10 Seconds, Max. |
| 275% | 0.500A, 1A, 2A, 2.5A, 3A, 4A, 5A | 300 msecs., Max. |
| 400% | 0.5A, 1A, 2A, 2.5A, 3A, 4A, 5A | 30 msecs., Max. |
| 1000% | 0.500A, 1A, 2A, 2.5A, 3A, 4A, 5A | 4 msecs., Max. |

251 Series

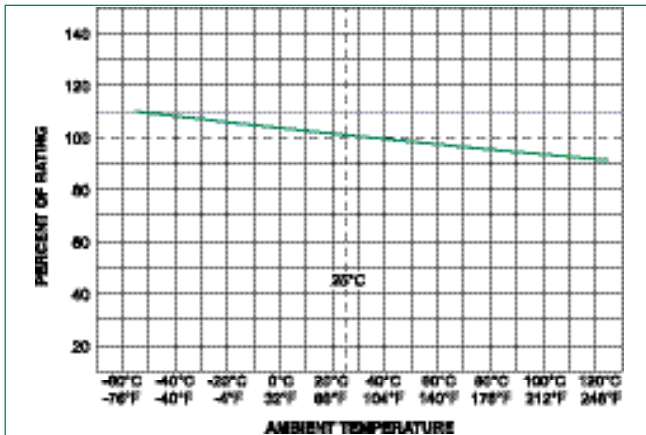
PICO® II Very Fast-Acting Fuse

Electrical Specifications by Item

| Ampere Rating (A) | Amp Code | Ordering Number (Std.) | Max Voltage Rating (V) | Interrupting Rating | Nominal Cold Resistance (Ohms) | Nominal Melting I ² t (A ² sec) | Nom Voltage Drop (V) | Agency Approvals | | | | | | |
|-------------------|----------|------------------------|------------------------|------------------------|--------------------------------|---|----------------------|------------------|-------|----|----|----|---|----|
| | | | | | | | | UL US | UK CA | CE | SF | PS | △ | CC |
| .062 | .062 | 251.062 | 125 | 300 A @ 125VDC | 7.000 | 0.000113 | 1.4 | x | x | x | x | - | - | - |
| .125 | .125 | 251.125 | 125 | | 1.700 | 0.00174 | 0.285 | x | x | x | x | - | - | - |
| .200 | .200 | 251.200 | 125 | | 0.895 | 0.0048 | 0.345 | x | x | x | x | - | - | - |
| .250 | .250 | 251.250 | 125 | | 0.665 | 0.0116 | 0.24 | x | x | x | x | - | - | - |
| .375 | .375 | 251.375 | 125 | | 0.395 | 0.0296 | 0.215 | x | x | x | x | - | - | - |
| .500 | .500 | 251.500 | 125 | | 0.302 | 0.0598 | 0.2165 | x | x | x | x | - | x | x |
| .630 | .630 | 251.630 | 125 | | 0.205 | 0.08 | 0.188 | x | x | x | x | - | - | - |
| .750 | .750 | 251.750 | 125 | | 0.175 | 0.153 | 0.176 | x | x | x | x | - | x | - |
| 1.00 | 001. | 251001. | 125 | | 0.128 | 0.256 | 0.194 | x | x | x | x | x | x | x |
| 1.25 | 1.25 | 2511.25 | 125 | | 0.100 | 0.390 | 0.2 | x | x | x | x | x | - | - |
| 1.50 | 01.5 | 25101.5 | 125 | | 0.0823 | 0.587 | 0.21 | x | x | x | x | x | x | - |
| 2.00 | 002. | 251002. | 125 | | 0.0473 | 0.405 | 0.141 | x | x | x | x | x | x | x |
| 2.50 | 02.5 | 25102.5 | 125 | | 0.0360 | 0.721 | 0.132 | x | x | x | x | x | x | x |
| 3.00 | 003. | 251003. | 125 | | 0.0295 | 1.19 | 0.131 | x | x | x | x | x | x | x |
| 3.50 | 03.5 | 25103.5 | 125 | | 0.0240 | 1.58 | 0.1205 | x | x | x | x | x | x | - |
| 4.00 | 004. | 251004. | 125 | 0.0204 | 2.45 | 0.114 | x | x | x | x | x | x | x | |
| 5.00 | 005. | 251005. | 125 | 0.0158 | 4.14 | 0.11 | x | x | x | x | x | x | x | |
| 7.00 | 007. | 251007. | 125 | 0.0107 | 10.4 | 0.102 | x | x | x | x | - | x | - | |
| 10.0 | 010. | 251010. | 125 | 0.0072 | 25.5 | 0.1 | x | x | x | x | - | x | - | |
| 12.0 | 012. | 251012. | 32 | 300A@32VDC & 50A@32VAC | 0.0059 | 45.2 | 0.0878 | x | x | x | x | - | - | - |
| 15.0 | 015. | 251015. | 32 | | 0.00446 | 68.8 | 0.071 | x | x | x | x | - | - | - |

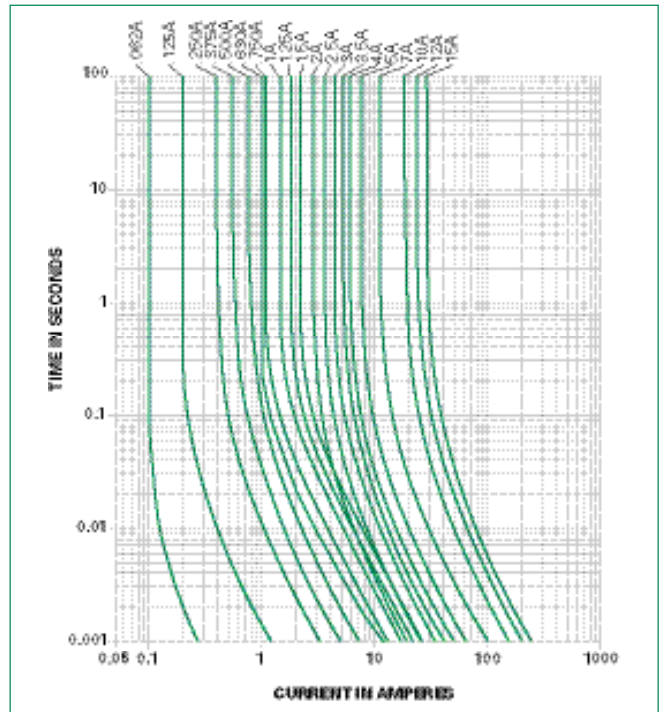
Note: Higher ampere ratings are available. Please contact Littelfuse Technical Support or your Littelfuse products representative for assistance.

Temperature Re-rating Curve



Note:
1. Re-rating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



251 Series

PICO® II Very Fast-Acting Fuse

Product Characteristics

| | |
|------------------------------|--|
| Materials | Encapsulated, Epoxy-coated Body 251 Series: Pure tin-coated copper wire leads |
| Solderability | MIL-STD-202, Method 208 |
| Lead Pull Force | MIL-STD-202, Method 211, Test Condition A (will withstand a 7lbs. axial pull test) |
| Operating Temperature | -55°C to +125°C (Consider re-rating) |

| | |
|---|--|
| Vibration | MIL-STD-202, Method 201 (10–55 Hz); Method 204, Test Condition C (55–2000 Hz at 10 G’s Peak) |
| Shock | MIL-STD-202, Method 213, Test Condition I (100 G’s peak for 6 msecs.) |
| Insulation Resistance (After Opening): | MIL-STD-202, Method 302, Test Condition A (10,000 ohms minimum at 100 volts) |
| Moisture Resistance | MIL-STD-202, Method 106 |
| Resistance to Soldering Heat | Withstands 60 seconds above 200°C and up to 260°C, maximum |
| Flammability Rating | UL 94V-0 |

Soldering Parameters

Recommended Process Parameters:

| Wave Parameter | Lead-Free Recommendation for 251 Series only |
|--|--|
| Preheat: (Depends on Flux Activation Temperature) | (Typical Industry Recommendation) |
| Temperature Minimum: | 100°C |
| Temperature Maximum: | 150°C |
| Preheat Time: | 60-180 seconds |
| Solder Pot Temperature: | 260°C Maximum |
| Solder Dwell Time: | 2-5 seconds |

Recommended Hand Soldering Parameters:

Solder Iron Temperature: 350°C +/- 5°C
Heating Time: 5 seconds max.

Note: These devices are not recommended for IR or Convection Reflow process

Packaging

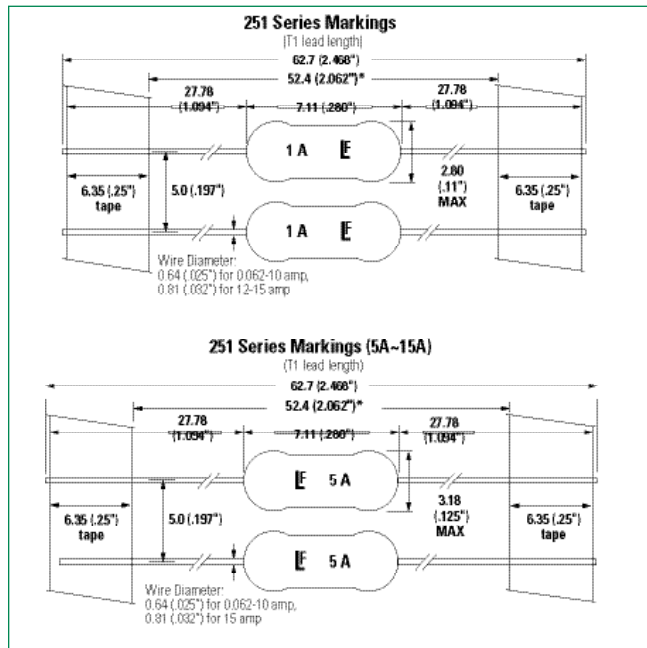
| Packaging Option | Packaging Specification | Quantity & Packaging Code |
|---------------------------------------|-------------------------|---|
| *T1: 52.4mm (2.062") Tape and Reel | EIA v296 | Please refer to available quantities above in "Part Numbering System" |

The default lead length for both ammo pack and loose pack is T1 for 251 and is T3 for 253.

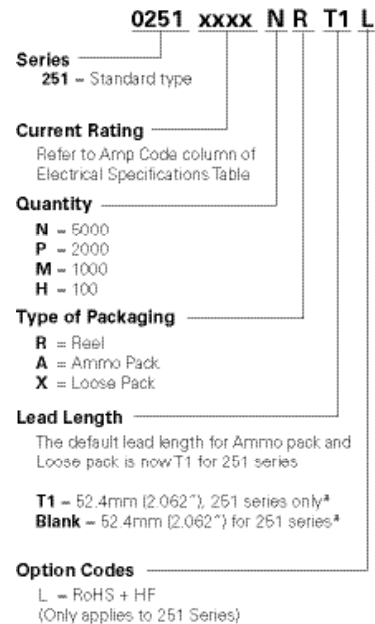
Notes:

* T1 dimension is defined as the length of the component between the two tapes. The full component length is 62.7mm (2.468"). **T1 length is for 251 series only.**

Dimensions



Part Numbering System



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