

464 Series Fuse



Description

The 464 Series fuse is a surface mount Nano2(R) fuse that conforms to IEC 60127-4. This IEC standard addresses Universal Modular Fuse-links (UMF) which are accepted world-wide without any additional country-specific deviations.

Features

- Fast-Acting
- Listed to IEC 60127-4, Universal Modular Fuse-Links (UMF)
- 250VAC Voltage rating
- RoHS compliant and Halogen Free

Applications

- Power supply
- Lighting system
- White goods
- Industrial equipment

Agency Approvals

| Agency | Agency File Number | Ampere Range |
|--------|--------------------|--------------|
| | NBK030205-E10480B | 1A - 5A |
| | NBK101105-E184655 | 6.3A |
| | E184655 | 0.25A - 6.3A |

Electrical Characteristics for Series

| % of Ampere Rating | Opening Time |
|--------------------|-----------------------------------|
| 125% | 1 hour, Minimum |
| 200% | 2 minutes, Maximum |
| 1000% | 0.001 sec., Min.; 0.01 sec., Max. |

Additional Information



Datasheet



Resources



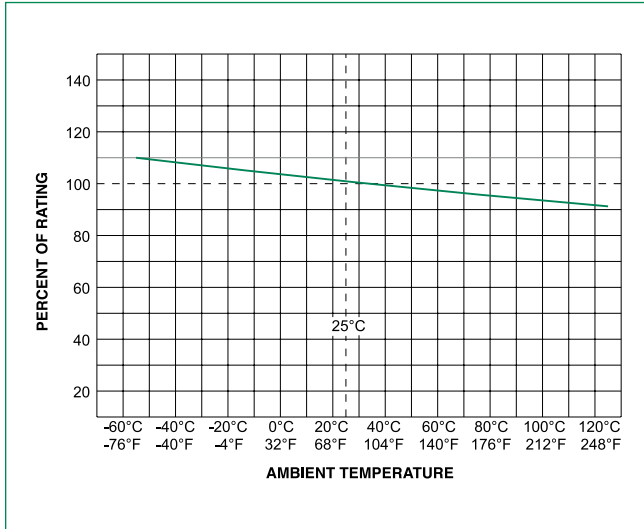
Samples

Electrical Specifications by Item

| Ampere Rating (A) | Amp Code | Max Voltage Rating (V) | Interrupting Rating | Nominal Cold Resistance (Ohms) | Nominal Melting I ² t (A ² sec) | Nominal Voltage Drop (mV) | Agency Approvals | |
|-------------------|----------|------------------------|---------------------|--------------------------------|---|---------------------------|------------------|---|
| | | | | | | | | |
| 0.500 | .500 | 250 | 100A@250VAC | 0.2373 | 0.22 | 600 | - | x |
| 0.800 | .800 | 250 | | 0.1159 | 0.308 | 400 | - | x |
| 1.00 | 001. | 250 | | 0.0762 | 0.51 | 300 | x | x |
| 1.25 | 1.25 | 250 | | 0.0580 | 0.98 | 300 | x | x |
| 1.60 | 01.6 | 250 | | 0.0448 | 1.15 | 300 | x | x |
| 2.00 | 002. | 250 | | 0.0354 | 2.48 | 300 | x | x |
| 2.50 | 02.5 | 250 | | 0.0288 | 3.99 | 300 | x | x |
| 3.15 | 3.15 | 250 | | 0.0206 | 8.05 | 300 | x | x |
| 4.00 | 004. | 250 | | 0.0156 | 13.85 | 300 | x | x |
| 5.00 | 005. | 250 | | 0.0119 | 23.6 | 300 | x | x |
| 6.30 | 06.3 | 250 | | 0.0093 | 35.912 | 300 | x | x |

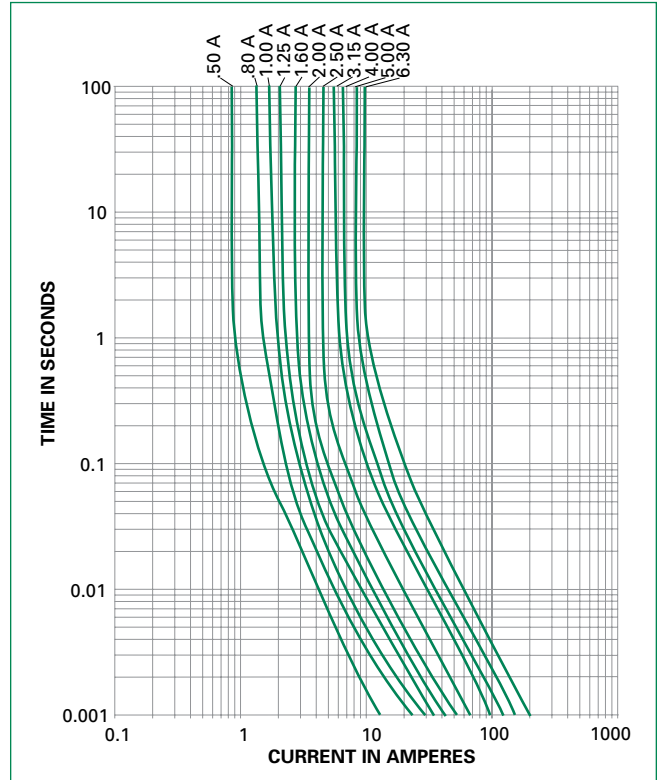
Notes:
 - I²t calculated at 8ms.
 - Resistance is measured at 10% of rated current, 25°C
 - For information and availability of additional ratings please contact Littelfuse

Temperature Re-rating Curve



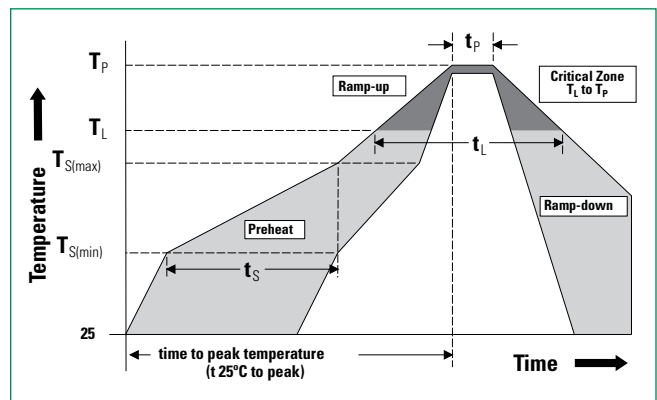
Note:
1. Rerating depicted in this curve is in addition to the standard derating of 15% for continuous operation.

Average Time Current Curves



Soldering Parameters

| | | |
|--|---|-------------------------|
| Reflow Condition | | Pb - Free assembly |
| Pre Heat | - Temperature Min ($T_{s(min)}$) | 150°C |
| | - Temperature Max ($T_{s(max)}$) | 200°C |
| | - Time (Min to Max) (t_s) | 60 - 180 secs |
| Average ramp up rate (Liquidus Temp (T_L) to peak) | | 5°C/second max. |
| $T_{s(max)}$ to T_L - Ramp-up Rate | | 5°C/second max. |
| Reflow | - Temperature (T_L) (Liquidus) | 217°C |
| | - Temperature (t_L) | 60 - 150 seconds |
| Peak Temperature (T_p) | | 260 ^{+0/-5} °C |
| Time within 5°C of actual peak Temperature (t_p) | | 20 - 40 seconds |
| Ramp-down Rate | | 5°C/second max. |
| Time 25°C to peak Temperature (T_p) | | 8 minutes max. |
| Do not exceed | | 260°C |
| Wave Soldering Parameters | 260°C Peak Temperature, 10 seconds max. | |

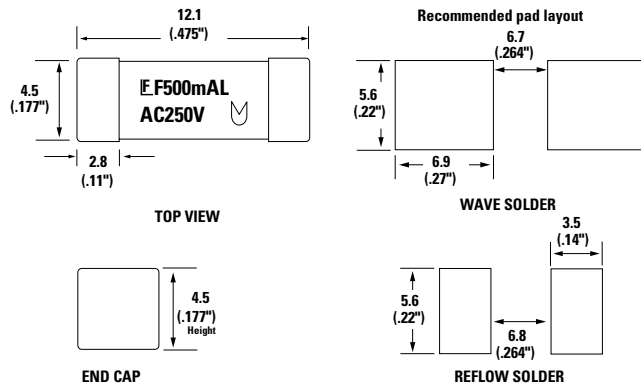


Product Characteristics

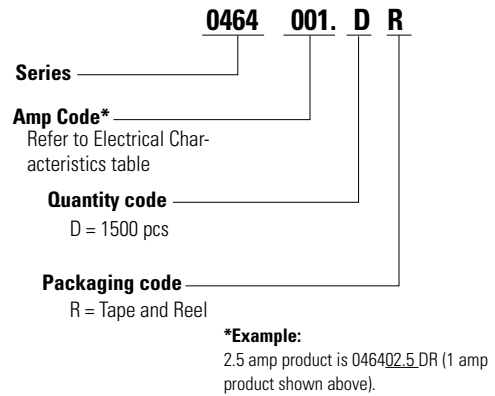
| | |
|--|---|
| Materials | Body: Ceramic Terminations: Silver-plated Caps |
| Product Marking | Brand, Ampere Rating, Voltage Rating, UMF Logo |
| Operating Temperature | -55°C to 125°C |
| Moisture Sensitivity Level | Level 1, J-STD-020 |
| Solderability | IEC 60127-4 |
| Insulation Resistance (after Opening) | IEC 60127-4 (0.1Mohm min @ 500VDC) |

| | |
|-------------------------------------|---|
| Thermal Shock | MIL-STD-202, Method 107, Test Condition B, 5 cycles, -65°C / +125°C |
| Mechanical Shock | MIL-STD-202, Method 213, Test Condition A |
| Vibration | MIL-STD-202, Method 201 (10-55 Hz) |
| Moisture Resistance | MIL-STD-202, Method 106, 10 cycles |
| Salt Spray | MIL-STD-202, Method 101, Test Condition B (48hrs) |
| Resistance to Soldering Heat | IEC 60127-4 |

Dimensions



Part Numbering System



Packaging

| Packaging Option | Packaging Specification | Quantity | Quantity & Packaging Code |
|--------------------|--------------------------------|----------|---------------------------|
| 24mm Tape and Reel | EIA RS-481-1 (IEC 286, part 3) | 1500 | DR |

Mouser Electronics

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