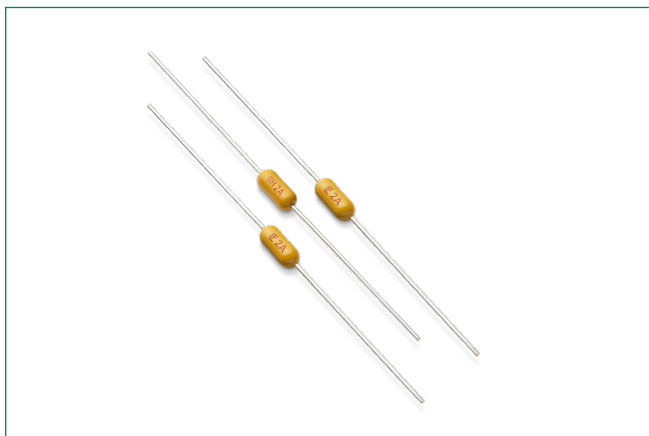


PICO® II 521 Series

Very Fast-Acting Fuse



Description

The 0521 PICO® II Very Fast-Acting Fuse Series is an AEC-Q200 qualified fuse designed to meet an extensive array of performance characteristics in a space-saving sub-miniature package.

Features

- Very fast-acting
- Small size
- AEC-Q200 qualified*
- Applicable in wire harness application
- Halogen-free
- Wide operating temperature range
- Low temperature re-rating

Benefits

- Small Size
- Meets Littelfuse's automotive qualifications*
- Can be installed using a wire harness
- Wide range of temperature application

* Largely based on Littelfuse internal AEC-Q200 test plan

Applications

- Secondary protection for space constrained applications:
- Battery Management System protection

Additional Information



Resources



Accessories



Samples

Agency Approvals

| Agency | Agency File Number | Ampere Range |
|--------|--------------------|--------------|
| | E10480 | 2 A |

Electrical Characteristics

| % of Ampere Rating | Ampere Rating | Opening Time |
|--------------------|---------------|----------------|
| 100% | 2 A | 4 Hours, Min. |
| 200% | 2 A | 1 Second, Max. |

Electrical Specifications

| 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 | |
|-------------------|----------|------------------------|------------------------|---------------------|--------------------------------|---|----------------------|------------------|---|
| | | | | | | | | | |
| 2.00 | 002. | 521002. | 75 | 300 A @ 75 VDC | 0.0473 | 0.405 | 0.141 | X | X |

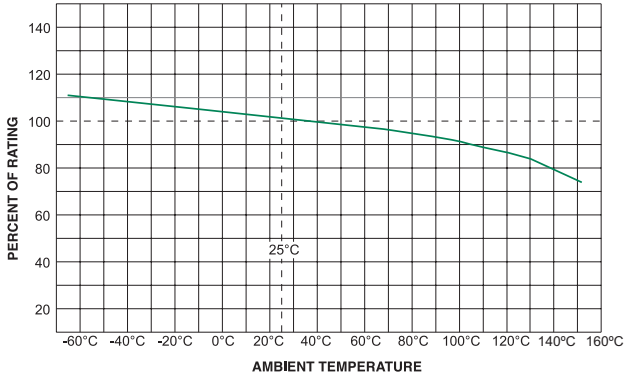
Notes

1. Cold resistance measured at less than 10% of rated current at 23° C.
2. I²t values measured at 8 ms opening time.
3. If you have special characteristic needs, please contact Littelfuse to discuss application specific options.

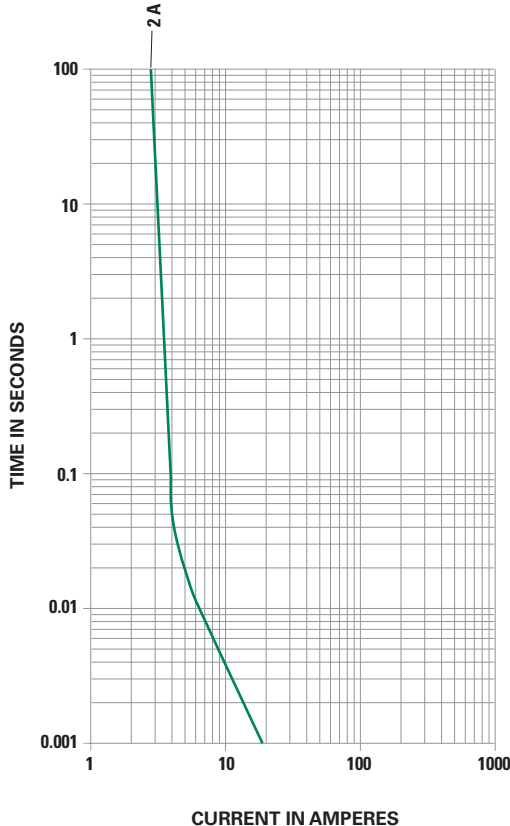
PICO® II 521 Series

Very Fast-Acting Fuse

Temperature Re-rating Curve



Average Time Current Curves



Soldering Parameters

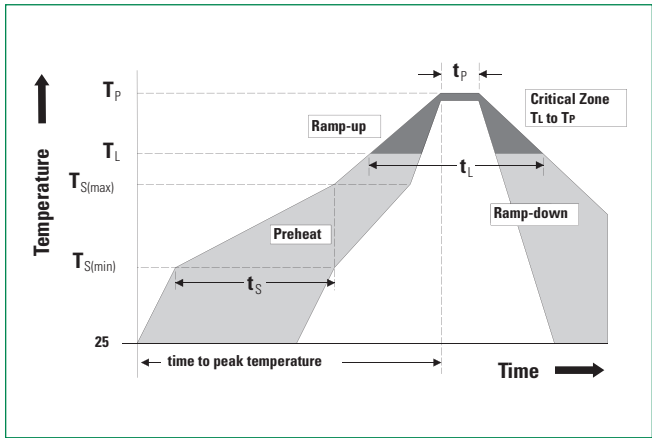
Recommended Process Parameters:

| Wave Parameter | Lead-Free Recommendation |
|--|-----------------------------------|
| 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



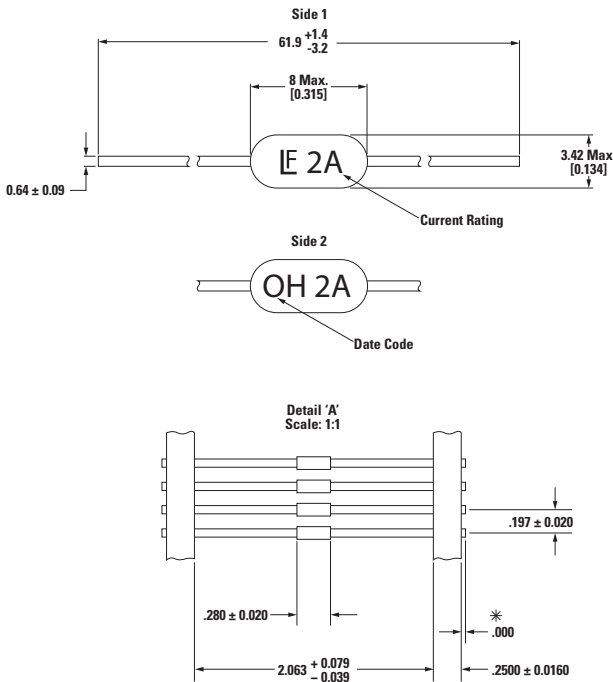
PICO® II 521 Series

Very Fast-Acting Fuse

Product Characteristics

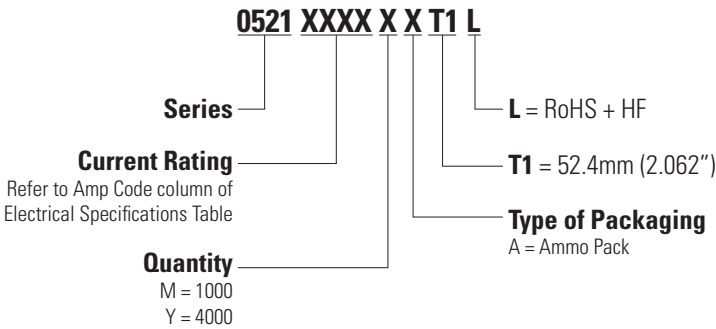
| | |
|-------------------------------------|---|
| Materials | Encapsulated, Epoxy-Coated Body Pure Tin-coated Copper wire leads |
| Product Marking | Body: Brand Logo, Current Rating |
| Lead Pull Force | MIL-STD-202, Method 211, Test Condition A (will withstand a 7 lbs. axial pull test) |
| Operating Temperature | -55° C to +125° C (Consider re-rating) |
| Resistance to Soldering Heat | Withstands 60 seconds above 200° C and up to 260° C, maximum |
| Vibration | MIL-STD-202, Method 204, 10-2000-10 Hz vibration traversed in 20 minutes, with 5g peak, for 12 cycles in 3 planes |
| Thermal Shock | JESD22-A104, 15 min. at -55° C lowest temp and 15 min. at 125° C highest temp, 5 minutes maximum transition |
| Biased Humidity | MIL-STD-202, Method 103, Test Condition D |
| Flammability Rating | UL 94V-0 |

Dimensions



* FIA Standard 296-F Allowed

Part Numbering System



Packaging

| Packaging Option | Packaging Specification | Quantity & Packaging Code |
|--------------------------------|-------------------------|---|
| *T1: 52.4mm (2.062") Ammo-Pack | EIA 296-E | Please refer to available quantities above in "Part Numbering System" |

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

Notes

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

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at <https://www.littelfuse.com/legal/disclaimers/product-disclaimer.aspx>.