

# 373 Series

## TR5® Fuse, Fast Acting



### Description

The TR5® 373 Series fuses are fast-acting 250V rated and designed in accordance to UL 248 -14.

### Features & Benefits

- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Internationally approved
- Low internal resistance
- Shock safe casing
- Vibration resistant
- Lead-free, Halogen free and RoHS compliant
- Available from 0.050A to 10A

### Additional Information



Resources



Accessories



Samples

#### Electrical Characteristics

| % of Ampere Rating | Ampere Rating | Opening Time            |
|--------------------|---------------|-------------------------|
| 200%               | 50mA - 6.3A   | 5 Seconds, <b>Max.</b>  |
|                    | 8A - 10A      | 60 Seconds, <b>Max.</b> |

### Applications

- Battery Chargers
- Consumer Electronics
- Power supplies
- Industrial Controllers

#### Agency Approvals

| Agency  | Agency File Number | Ampere Range  |
|---------|--------------------|---------------|
| SP      | 51378              | 0.050A - 6.3A |
| c UL us | E67006             | 0.050A - 10A  |
| UK CA   | NA                 | 50mA - 10A    |

#### Electrical Characteristics

| Amp Code | Rated Current       | Voltage Rating | Breaking Capacity | Nominal Cold Resistance (Ohms) | Voltage Drop 1.0xI <sub>N</sub> max. (mV) | Power Dissipation 1.0xI <sub>N</sub> max. (mW) | Melting Integral 10xI <sub>N</sub> max. (A <sup>2</sup> s) | Agency Approvals |         |       |
|----------|---------------------|----------------|-------------------|--------------------------------|-------------------------------------------|------------------------------------------------|------------------------------------------------------------|------------------|---------|-------|
|          |                     |                |                   |                                |                                           |                                                |                                                            | SP               | c UL us | UK CA |
| 0050     | 50mA                | 250V           | 50A@250VAC        | 7.6250                         | 1400                                      | 70                                             | 0.0001                                                     | X                | X       | X     |
| 0063     | 63mA                | 250V           |                   | 4.6900                         | 1300                                      | 85                                             | 0.0002                                                     | X                | X       | X     |
| 0080     | 80mA                | 250V           |                   | 3.6500                         | 1200                                      | 100                                            | 0.0004                                                     | X                | X       | X     |
| 0100     | 100mA               | 250V           |                   | 8.9000                         | 1100                                      | 110                                            | 0.0013                                                     | X                | X       | X     |
| 0125     | 125mA               | 250V           |                   | 6.0550                         | 1000                                      | 125                                            | 0.0019                                                     | X                | X       | X     |
| 0160     | 160mA               | 250V           |                   | 4.1310                         | 950                                       | 155                                            | 0.0040                                                     | X                | X       | X     |
| 0200     | 200mA               | 250V           |                   | 3.2260                         | 850                                       | 170                                            | 0.0065                                                     | X                | X       | X     |
| 0250     | 250mA               | 250V           |                   | 2.2240                         | 750                                       | 190                                            | 0.0140                                                     | X                | X       | X     |
| 0315     | 315mA               | 250V           |                   | 1.5150                         | 650                                       | 205                                            | 0.0320                                                     | X                | X       | X     |
| 0400     | 400mA               | 250V           |                   | 0.2200                         | 230                                       | 95                                             | 0.0160                                                     | X                | X       | X     |
| 0500     | 500mA               | 250V           |                   | 0.1570                         | 220                                       | 110                                            | 0.0250                                                     | X                | X       | X     |
| 0630     | 630mA               | 250V           |                   | 0.1180                         | 210                                       | 135                                            | 0.0450                                                     | X                | X       | X     |
| 0800     | 800mA               | 250V           |                   | 0.0970                         | 200                                       | 160                                            | 0.0690                                                     | X                | X       | X     |
| 1100     | 1.00A               | 250V           |                   | 0.0710                         | 190                                       | 190                                            | 0.1250                                                     | X                | X       | X     |
| 1125     | 1.25A               | 250V           |                   | 0.0665                         | 180                                       | 225                                            | 0.2000                                                     | X                | X       | X     |
| 1160     | 1.60A               | 250V           |                   | 0.0480                         | 170                                       | 275                                            | 0.3800                                                     | X                | X       | X     |
| 1200     | 2.00A               | 250V           |                   | 0.0359                         | 160                                       | 320                                            | 0.6300                                                     | X                | X       | X     |
| 1250     | 2.50A               | 250V           |                   | 0.0305                         | 150                                       | 375                                            | 1.2000                                                     | X                | X       | X     |
| 1315     | 3.15A               | 250V           |                   | 0.0240                         | 140                                       | 445                                            | 1.9000                                                     | X                | X       | X     |
| 1400     | 4.00A               | 250V           |                   | 0.0185                         | 130                                       | 520                                            | 3.5000                                                     | X                | X       | X     |
| 1500     | 5.00A               | 250V           |                   | 0.0144                         | 120                                       | 630                                            | 6.2000                                                     | X                | X       | X     |
| 1630     | 6.30A               | 250V           |                   | 0.0133                         | 115                                       | 1000                                           | 9.1000                                                     | X                | X       | X     |
| 1800     | 8.00A <sup>1</sup>  | 250V           |                   | 0.0074                         | 120                                       | 1600                                           | 30.0000                                                    | -                | X       | X     |
| 2100     | 10.00A <sup>1</sup> | 250V           |                   | 0.0059                         | 110                                       | 2000                                           | 55.0000                                                    | -                | X       | X     |

<sup>1</sup> Conducting path cross-section minimum ≥ 0.2mm<sup>2</sup>

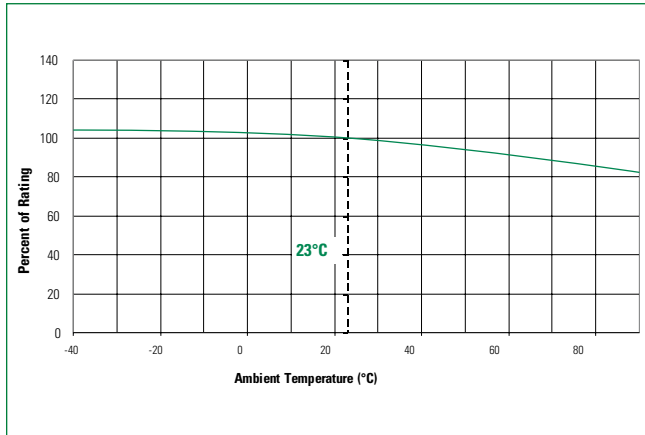
**Notes:** 1) 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

2) Resistance is measured at 10% of rated current, 25°C.

# 373 Series

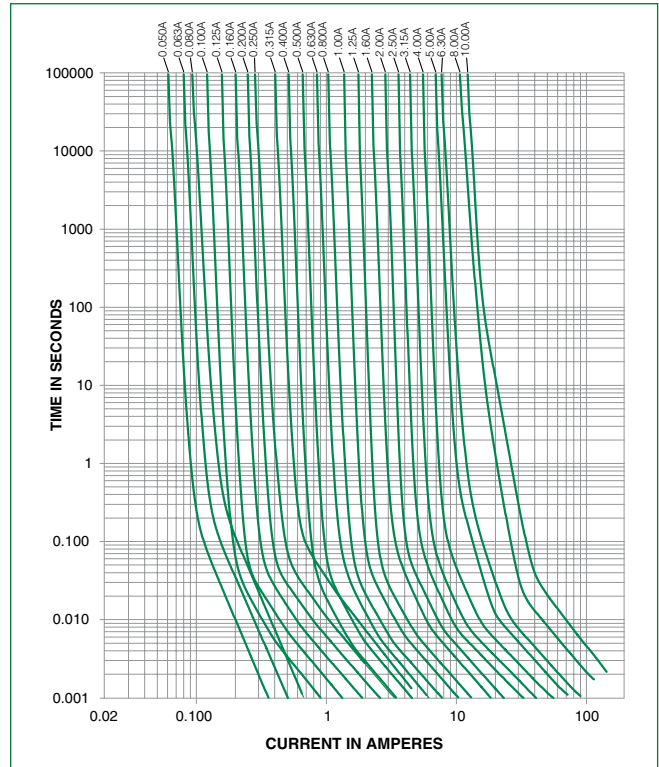
## TR5® Fuse, Fast Acting

### Temperature Re-rating Curve

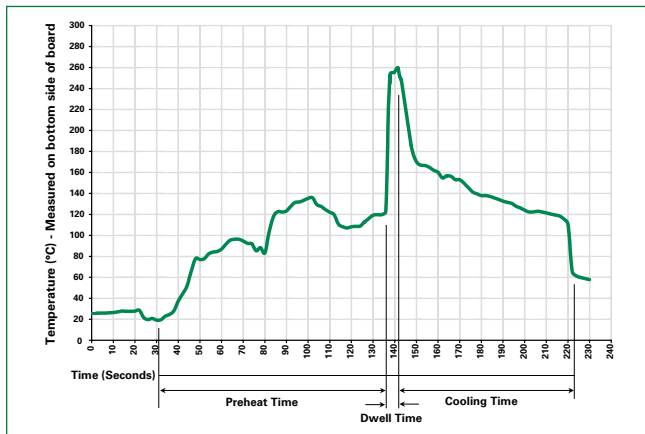


**Note: 1.** Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

### Average Time Current Curves



### Soldering Parameters - Wave Soldering



### Recommended Process Parameters:

| Wave Parameter                                       | Lead-Free Recommendation          |
|------------------------------------------------------|-----------------------------------|
| Preheat:<br>(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-Solder 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.

# 373 Series

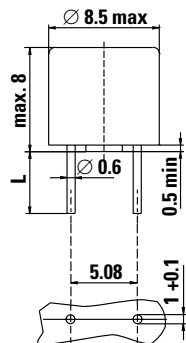
## TR5® Fuse, Fast Acting

### Product Characteristics

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| <b>Materials</b>                 | Base/Cap: Brown Thermoplastic<br>Polyamide PA 6.6, UL 94 V-0<br>Round Pins: Copper, Tin-plated |
| <b>Lead Pull Strength</b>        | 10 N (IEC 60068-2-21)                                                                          |
| <b>Solderability</b>             | 260°C, ≤ 3s. (Wave)<br>350°C, ≤ 1s. (Soldering Iron)                                           |
| <b>Soldering Heat Resistance</b> | 260°C, 10s. (IEC 60068-2-20)<br>350°C, 3s. (Soldering Iron)                                    |

|                              |                                                                                                                                          |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operating Temperature</b> | -40°C to +85°C (consider de-rating)                                                                                                      |
| <b>Climatic Category</b>     | -40°C/+85°C/21 days<br>(EN 60068-1,-2-1,-2-2,-2-78)                                                                                      |
| <b>Stock Conditions</b>      | +10°C to +60°C<br>RH ≤ 75% yearly average, without dew,<br>maximum value for 30 days-95%<br>24 cycles at 15 min. each<br>(IEC 60068-2-6) |
| <b>Vibration Resistance</b>  | 10 - 60 Hz at 0.75 mm amplitude<br>60 - 2000 Hz at 10G's acceleration                                                                    |

### Dimensions



Holes in PCB

Long Leads (L=18.8mm ± 0.3 mm)

Short Leads (L=4.3mm ± 0.3 mm)

### Part Numbering System

|                       |                                                                                                               |             |             |
|-----------------------|---------------------------------------------------------------------------------------------------------------|-------------|-------------|
|                       | <b>373</b>                                                                                                    | <b>xxxx</b> | <b>0000</b> |
| <b>Series</b>         |                                                                                                               |             |             |
| <b>Amp Code</b>       |                                                                                                               |             |             |
|                       | Refer to Amp Code column of<br>Electrical Characteristics Table                                               |             |             |
| <b>Packaging Code</b> |                                                                                                               |             |             |
|                       | 0000 Tape/Ampopack (1,000 pcs.)<br>0410 Short Leads - Bulk (1,000 pcs.)<br>0430 Short Leads - Bulk (200 pcs.) |             |             |

### Packaging

| Packaging Option  | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width |
|-------------------|-------------------------|----------|---------------------------|--------------|
| <b>373 Series</b> |                         |          |                           |              |
| Tape & Ampopack   | N/A                     | 1,000    | 0000                      | N/A          |
| Short Leads       | N/A                     | 1,000    | 0410                      | N/A          |
| Short Leads       | N/A                     | 200      | 0430                      | N/A          |

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