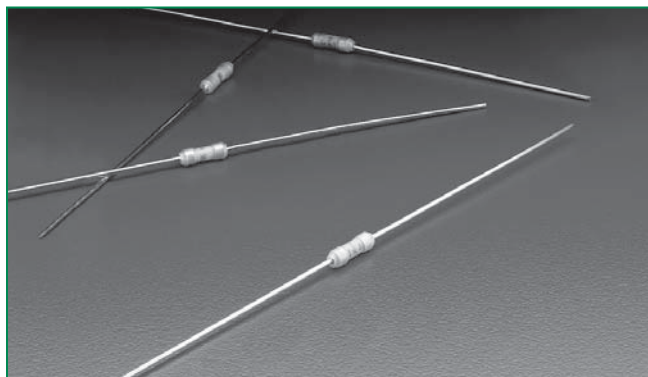


RoHS

## 275 Series, PICO®, Very Fast-Acting Fuse



### Description

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

### Features

- Very fast-acting
- Small size
- High current rating (20A- 30A)
- RoHS compliant
- Wide operating temperature range
- Low temperature de-rating


### Applications

- Power supply
- PC server
- Networking equipment
- Storage system

### Electrical Characteristics

% of Ampere Rating	Ampere Rating	Opening Time
100%	20 - 30	4 Hours, <b>Min.</b>
200%	20 - 30	10 Seconds, <b>Max.</b>

### Agency Approvals

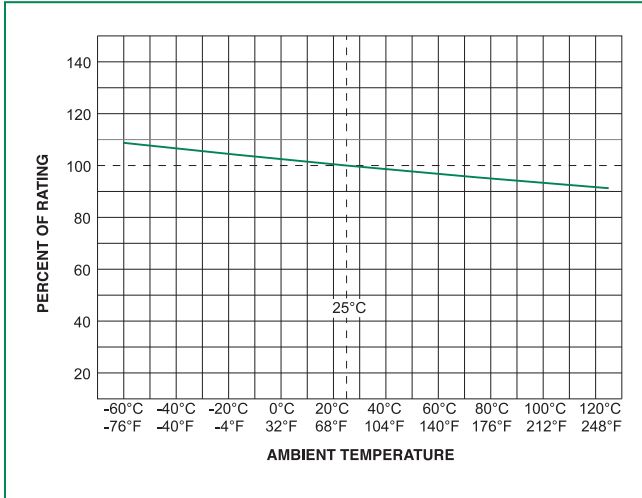
Agency	Agency File Number	Ampere Range
	E10480	20A - 30A

### Electrical Characteristics

Ampere Rating (A)	Amp Code	Ordering Number	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec)	Agency Approvals
20.0	020.	0275020.	32	300 amperes @ rated voltage VDC 100 amperes @ rated voltage VAC	0.0031	115	x
25.0	025.	0275025.	32		0.0026	192	x
30.0	030.	0275030.	32		0.0020	288	x

275 Series

### Temperature Derating Curve



Note:

1. Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

### Soldering Parameters

#### Recommended Process Parameters:

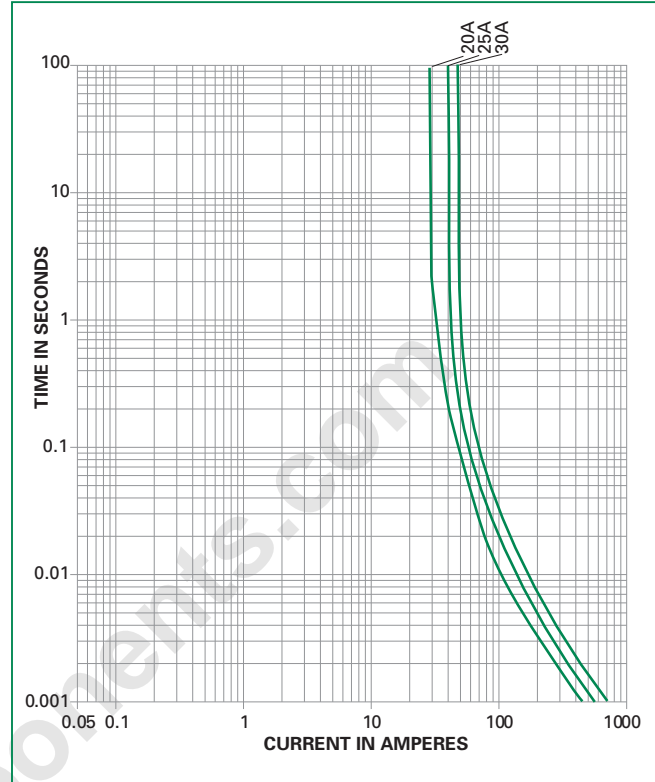
Wave Parameter	Lead-Free Recommendation
<b>Preheat:</b> (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)
Temperature Minimum:	100° C
Temperature Maximum:	150° C
Preheat Time:	60-180 seconds
<b>Solder Pot Temperature:</b>	260° C Maximum
<b>Solder Dwell Time:</b>	2-5 seconds

#### 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.**

### Average Time Current Curves



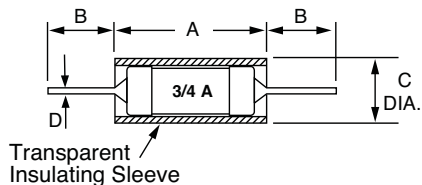
## Product Characteristics

<b>Materials</b>	Transparent sleeve covered body, Pure Tin-coated copper wire leads
<b>Solderability</b>	MIL-STD-202, Method 208
<b>Lead Pull Force</b>	MIL-STD-202, Method 211, Test Condition A (will withstand a 5lbs. axial pull test)

<b>Operating Temperature</b>	-55°C to +125°C
<b>Shock</b>	MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds) and per method 2028 (78G's peak for 11 milliseconds)
<b>Vibration</b>	MIL-STD-202, Method 201 (10-55 Hz); Method 204, Test Condition D (Vibrations of 10-2000 cps at 20 G's)
<b>Moisture Resistance</b>	MIL-STD-202, Method 106

## Dimensions

### 275 000 Series



Amperage	Dimensions in mm (inches)			
	A	B	C	D
20 - 30	7.87 (.31")	27.78 (1.094")	3.38 (.133")	1.016 (.040")

## Part Numbering System

### 0275 xxxx M R T1 L

**Series**  
275

**Current Rating**  
Refer to Amp Code column of  
Electrical Characteristics Table

**Quantity**  
M = 1000  
V = 5

**Type of Packaging**  
R = Reel  
X = Loose Pack

**Lead Length**  
T1 = 52.4mm (2.062")  
Blank = For Loose pack (MXL,VXL)

**RoHS**  
Only RoHS parts are available for  
275 Series

## Packaging

Packaging Option	Packaging Specification	Quantity & Packaging Code
T1: 52.4mm (2.062") Tape and Reel	EIA 296	Please refer to available quantities above in "Part Numbering System"

The default lead length for loose pack is T1.

onlinecomponents.com