### Axial Lead & Cartridge Fuses Datasheet

# 473 Series PICO<sup>®</sup> II Slo-Blo<sup>®</sup> Fuse

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# **Additional Information**



### **Electrical Characteristics**

% of Ampere Rating	Opening Time
100%	4 Hours, <b>Min</b> .
200%	1 Sec., Min.; 60 Sec., Max.
300%	0.2 Sec., Min.; 3 Sec., Max.
800%	0.002 Sec., Min.; 0.1 Sec., Max.

# Description

The PICO<sup>®</sup> II Slo-Blo<sup>®</sup> Fuse combines time-delay performance characteristics with the proven reliability of a PICO<sup>®</sup> Fuse.

# **Features & Benefits**

- Enhanced inrush withstand
- Small size
- Wide range of current ratings (0.375A - 7A)
- Halogen free and RoHS complaint

- Applications

  Flat-panel Display TV
- LCD monitor
- Lighting system

- Wide operating temperature range
- Low temperature rerating

### Medical equipment

Industrial equipment

### **Agency Approvals**

Agency	Agency File Number	Ampere Range
<b>91</b>	E10480	0.375A - 7A
<b>SP</b>	29862	0.375A - 7A
< PS E	NBK200416-JP1021	1A - 5A
UK CA	N/A	0.375A - 7A
Œ	N/A	0.375A - 7A

### **Electrical Characteristics**

Ampere Max		Interrupting	Nominal Cold	Nominal	Nom	Agency Approvals					
(A)	Code	Rating (V)	Rating	(Ohms)	Ivieiting I <sup>2</sup> t (A <sup>2</sup> sec)	(mV)	UK CA	Œ	<b>91</b>	<u>ج</u>	PS E
0.375	.375	125		1.7550	0.085	0.840	Х	Х	Х	Х	-
0.500	.500	125		1.1370	0.210	0.775	Х	Х	Х	Х	-
0.750	.750	125		0.4900	0.760	0.429	Х	Х	Х	Х	-
1.00	001.	125		0.3000	2.010	0.353	Х	Х	Х	Х	Х
1.50	01.5	125	50A@125VAC/DC	0.1170	3.940	0.208	Х	Х	Х	Х	Х
2.00	002.	125		0.0720	7.600	0.180	Х	Х	Х	Х	Х
2.25	2.25	125		0.0640	9.280	0.164	Х	Х	Х	Х	Х
2.50	02.5	125		0.0520	13.00	0.153	Х	Х	Х	Х	Х
3.00	003.	125		0.0380	21.00	0.140	Х	Х	Х	Х	Х
3.50	03.5	125		0.0240	26.80	0.094	Х	Х	Х	Х	Х
4.00	004.	125		0.0200	35.00	0.086	Х	Х	Х	Х	Х
5.00	005.	125		0.0133	54.80	0.074	Х	Х	Х	Х	Х
7.00	007.	125		0.0092	105.00	0.070	Х	Х	Х	Х	-



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### **Temperature Re-rating Curve**



Note: Rerating 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
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-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



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### **Product Characteristics**

Materials	Encapsulated, Epoxy-Coated Body; Solder Coated Copper wire leads; RoHS compliant Product: 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 7 lbs. axial pull test)
Operating Temperature	–60°C to +125°C (Consider re-rating)
Shock	MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds)

Vibration	MIL-STD-202, Method 201 (10–55 Hz); MIL-STD-202, Method 204, Test Condition C (55–2000 Hz at 10 G's Peak)
Salt Spray	MIL-STD-202, Method 101, Test Condition B
Insulation Resistance	MIL-STD-202, Method 302, (10,000
(After Opening):	ohms minimum at 100 volts)
Resistance to	MIL-STD-202, Method 210, Test
Soldering Heat	Condition C (20 sec at 260°C)
Thermal Shock	MIL-STD-202, Method 107, Test Condition B (–65°C to 125°C)
Moisture Resistance	MIL-STD-202, Method 106 (90–98% RH), Heat (65°C)

#### **Dimensions mm (inches)**



473 series markings

### Part Numbering System



### 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"

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

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