



#### Description

The PICO® II 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
- Wide current rating range (62mA- 15A)
- RoHS compliant
- Wide operating temperature range
- Low temperature de-rating

#### Applications

Secondary protection for space constrained applications

- Flat-panel display TV
- LCD monitor
- LCD backlight inverter
- Office machines
- Power supply
- Audio/Video system
- Lighting system
- Medical equipment

#### Electrical Characteristics

% of Ampere Rating	Ampere Rating	Opening Time
100%	1/16–15	4 Hours, <b>Min.</b>
200%	1/16–7	1 Seconds, <b>Max.</b>
	10	3 Seconds, <b>Max.</b>
	12-15	10 Seconds, <b>Max.</b>

#### Agency Approvals

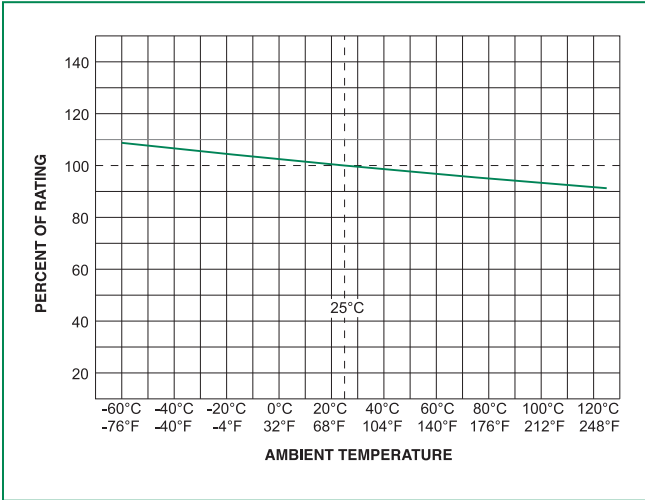
Agency	Agency File Number	Ampere Range
	E10480	62mA - 15A
	LR 29862	62mA - 15A
	JET 1896-31007-1001	1A - 5A
	J02037794	500mA - 10A
	FM10	62mA - 15A

#### Electrical Characteristics

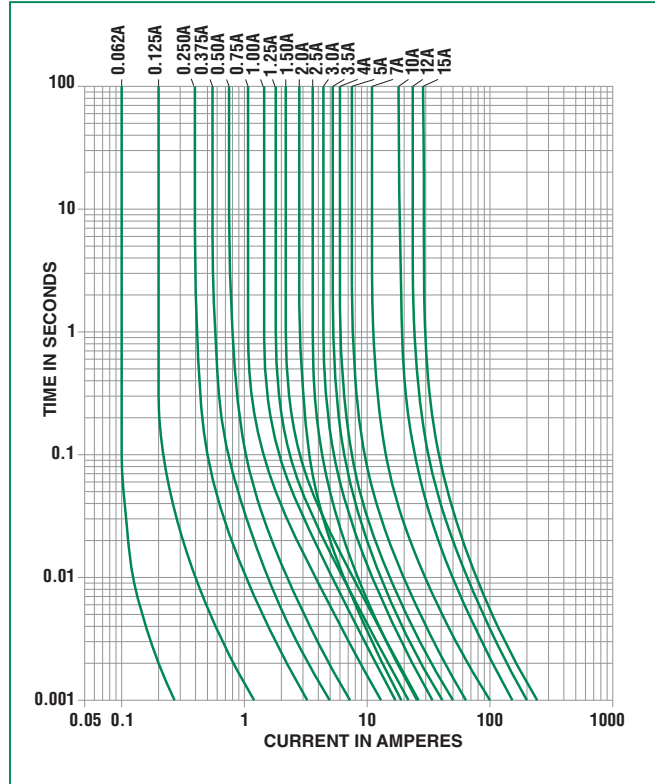
Ampere Rating (A)	Amp Code	Ordering Number (Std.)	Ordering Number (Mil.)	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec)	Nom Voltage Drop (mV)	Agency Approvals				
												TUV	QPL
.062	.062	251.062	253.062	125	300 amperes at rated voltage VDC	7.000	0.000113	1.4	x	x			x
.125	.125	251.125	253.125	125		1.700	0.00174	0.285	x	x			x
.250	.250	251.250	253.250	125		0.665	0.0116	0.24	x	x			x
.375	.375	251.375	253.375	125		0.395	0.0296	0.215	x	x			x
.500	.500	251.500	253.500	125		0.280	0.0598	0.2165	x	x		x	x
.750	.750	251.750	253.750	125		0.175	0.153	0.176	x	x		x	x
1.00	001.	251001.	253001.	125		0.128	0.256	0.194	x	x	x	x	x
1.25	1.25	2511.25		125		0.100	0.390	0.2	x	x	x	x	
1.50	015.	251015.	253015.	125		0.0823	0.587	0.21	x	x	x	x	x
2.00	002.	251002.	253002.	125		0.0473	0.405	0.141	x	x	x	x	x
2.50	02.5	25102.5		125	50 amperes at rated voltage VAC	0.0360	0.721	0.132	x	x	x	x	
3.00	003.	251003.	253003.	125		0.0290	1.19	0.131	x	x	x	x	x
3.50	03.5	25103.5		125		0.0240	1.58	0.1205	x	x	x	x	
4.00	004.	251004.	253004.	125		0.0204	2.45	0.114	x	x	x	x	x
5.00	005.	251005.	253005.	125		0.0155	4.14	0.11	x	x	x	x	x
7.00	007.	251007.	253007.	125		0.0105	10.4	0.102	x	x		x	x
10.0	010.	251010.	253010.	125		0.00705	25.5	0.1	x	x		x	x
12.0	012.	251012.		32		0.0055	45.2	0.0878	x	x			
15.0	015.	251015.	253015.	32		0.00446	68.8	0.071	x	x			x

Note: Higher ampere ratings are available. Please contact Littelfuse Technical Support or your Littelfuse products representative for assistance.

Temperature Derating 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-Solder Parameters:

Solder Iron Temperature: 350° C +/- 5° C  
Heating Time: 5 seconds max.

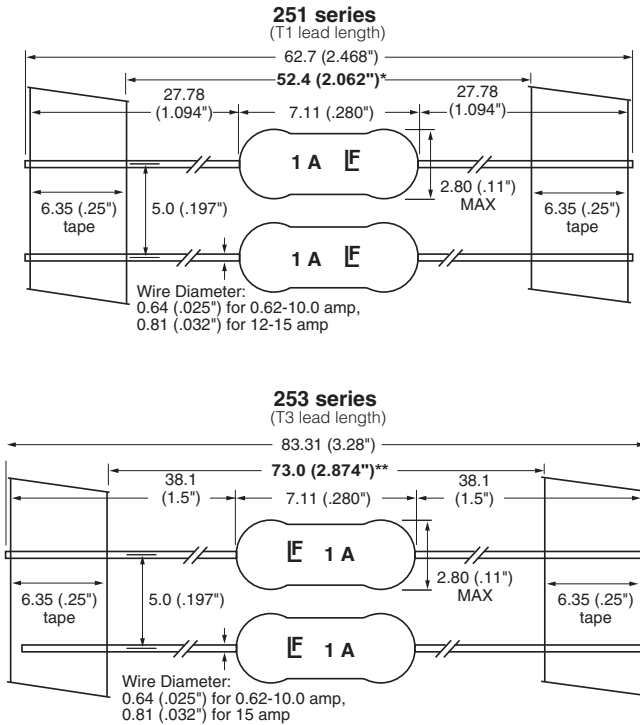
**Note: These devices are not recommended for IR or Convection Reflow process.**

### Product Characteristics

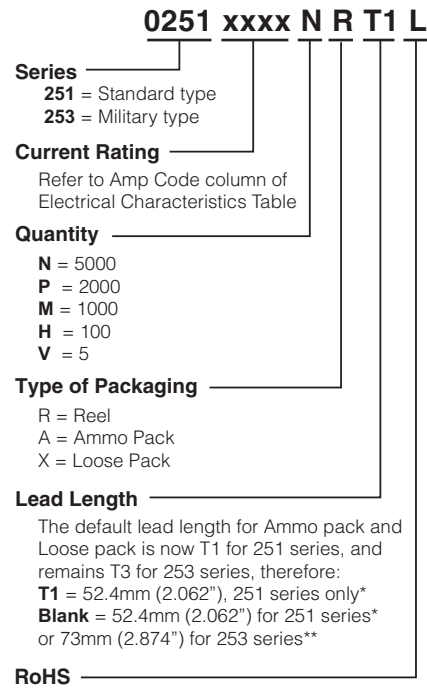
<b>Materials</b>	Encapsulated, Epoxy-Coated Body: Pure Tin-coated Copper wire leads
<b>Solderability</b>	MIL-STD-202, Method 208
<b>Lead Pull Force</b>	MIL-STD-202, Method 211, Test Condition A (will withstand a 7lbs. axial pull test)
<b>Fuses To MIL SPEC</b>	251/253 Series is available in FM10 on QPL for MIL-PRF-23419. To order, change 251 to 253

<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)
<b>Vibration</b>	MIL-STD-202, Method 201 (10–55 Hz); Method 204, Test Condition C (55–2000 Hz at 10 G's Peak)
<b>Moisture Resistance</b>	MIL-STD-202, Method 106
<b>Resistance to Soldering Heat</b>	Withstands 60 seconds above 200°C and up to 260°C, maximum
<b>Flammability Rating</b>	UL 94V-0

### Dimensions



### 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"
**T3: 73mm (2.874") Tape and Reel	EIA 296	

The default lead length for both ammo pack and loose pack is T1 for 251 and is T3 for 253.

Notes: \* T1 dimension is defined as the length of the component between the two tapes. The full component length is 62.7mm (2.468"). **T1 length is for 251 series only.**  
 \*\* T3 dimension is defined as the length of the component between the two tapes. The full component length is 83.37mm (3.28"). **T3 length is for 253 series only.**