462 Series 250V/350V VAC/VDC Time Lag Fuse





Additional Information



Resources





Samples

Accessories

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Electrical Characteristics for Series

% of Amp Rating	Opening Time
125%	1 hour, Minimum
200%	2 minutes, Maximum
1000%	10 milliseconds, Minimum 100 milliseconds, Maximum

Description

The 462 series Nano2® Surface Mount Fuse has time-lag current characteristics with 250V and 350V interrupting ratings. It complies with IEC 60127-4 Universal Modular Fuse-Links (UMF).

Features

- Heat resistant plastic housing, UL 94 V-0
- Designed for line or low voltage applications
- Low voltage drop
- Internationally approved
- High pulse resistance
- Lead-free -- compatible with lead-free solders and higher temperature profiles
- Available in ratings of 0.5A to 5A
- Halogen-free and RoHS compliant.

Applications

- Lighting ballast
- AC/DC adaptor primary protection
- Transformerless AC/DC converter circuit
- High DC voltage power distribution system

Agency Approvals

Agency	Agency File/Certificate Number	Ampere Range
c 711 ° us	E67006	0.5A - 5A
$\bigcirc \stackrel{\widehat{V_E}}{\longrightarrow}$	40022235	1A, 1.6A, 2A, 3.15A, 4A
	NBK250416-JP1021	1A - 1.6A
	NBK010721-JP1021	2A - 5A
œc	CQC14012115883	1.6A
EAC	RU C-DE.HB26.B01385/21	0.5A - 5A
• ∀	E242325	0.5A - 5A

Electrical Specifications by Item

Ampere		Max		Nominal Cold	Nominal	Nominal	Nominal	Nominal N	Nom Nom	Nom	Agency Approvals ³					
Rating (A)	Amp Code	Voltage Rating (V)⁵	Interrupting Rating	Resistance (Ohms) ¹	Melting I ² t (A ² sec)	Voltage Drop (mV)	Power Dissipation (mW)	c 711 ° us	Ø ^V E	⊕ ∀	œc	EAC	⟨PS⟩			
0.5	0500			0.227	0.43	160	200	Χ	-	X	-	Χ	-			
0.63	0630			0.157	0.8	160	200	Χ	-	X	-	Χ	-			
8.0	0800			0.13	1.4	160	250	Χ	-	X	-	X	-			
1.0	1100		100A @	0.0867	2.7	140	250	Χ	Χ	X	-	X	X			
1.25	1125		350VAC/VDC ⁴	0.0602	5.2	130	250	X	-	X	-	Χ	X			
1.6	1160	250	150A @	0.0443	9.7	130	280	Χ	Χ	X	Χ	Χ	X			
2.0	1200	250	250VAC/VDC	0.0335	5.44	120	300	X	Χ	X	-	Χ	X			
2.5	1250	230 (AC) (DC	2001/10/120	0.0278	8.0	120	450	Χ	-	Χ	-	Χ	X			
3.15	1315		0.0204	14.0	110	600	Χ	Χ	X	-	Χ	X				
4.0	1400			0.0158	21.0	110	800	Χ	Χ	X	-	Χ	Χ			
5.0	1500	150A @ 250VAC/VDC	0.0124	40.0	110	1000	X	-	X	-	X	X				

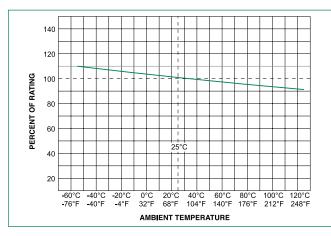
- 1. Cold resistance measured at less than 10% of rated current at 23°C
- 2. l^2t values are measured at 8ms opening time
- 3. Agency Approval Table Key: X = Approved or Certified, P = Pending
- 4. UL Recognition IR at 100A @ 350 VAC/VDC
- 5. Rated at 350VAC/VDC per UL Recognition under UL248 (up to 4A only). Rated at 250VAC/VDC per VDE under IEC standard 60127-4.

Note: If you have special electrical characteristic needs, please contact Littelfuse to discuss application specific options



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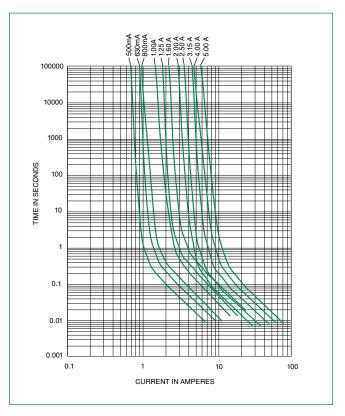
Temperature Re-rating Curve



Note:

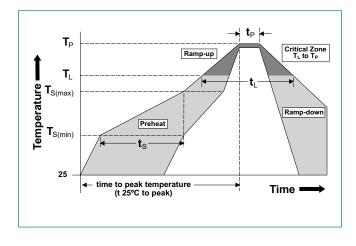
1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



Soldering Parameters

Reflow Cond	lition	Pb – free assembly		
	-Temperature Min (T _{s(min)})	150°C		
Pre Heat	-Temperature Max (T _{s(max)})	200°C		
	-Time (Min to Max) (t _s)	60 – 180 seconds		
Average Ran peak)	np-up Rate (Liquidus Temp (T _L) to	5°C/second max.		
$\mathbf{T}_{\mathrm{S(max)}}$ to \mathbf{T}_{L} -	Ramp-up Rate	5°C/second max.		
Reflow	-Temperature (T _L) (Liquidus)	217°C		
	- Temperature (t _L)	60 – 150 seconds		
Peak Temperature (T _p)		250+0/-5 °C		
Time within	5°C of actual peak Temperature (t _p)	20 - 40 seconds		
Ramp-down	Rate	5°C/second max.		
Time 25°C to peak Temperature (T _p)		8 minutes max.		



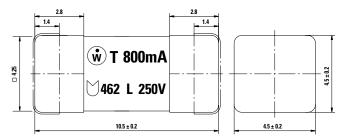


Product Characteristics

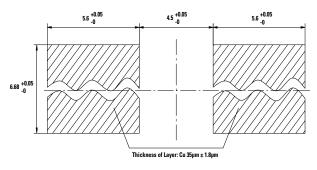
Materials	Body : Plastic UL 94 V-0 Cap : Tin-plated brass
Product Marking	Body: Brand Logo, "T" for Time-Lag, Current Rating, L Voltage Rating, UMF logo
Solderability	IEC 60068-2-58
Reistance to Soldering Heat	IEC 60068-2-58

Operating Temperature	-40°C to +85°C with proper derating
Climatic Category	IEC 60068-1, -2-1, -2-2, -2-78 (-40°C to +85°C / 21 days)
Vibration	IEC 60068-6 (24 cycles of 15 mins each, 1-60 Hz at 0.75mm amplitute, 60-2000 Hz at 10g acceleration)
Moisture Sensitivity Level	J-STD-020, Level 1

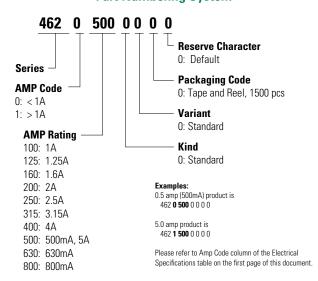
Dimensions



Recommended Pad Layout



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
16mm Tape and Reel	IEC 60286, part 3	1500	0

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