

# SolidMatrix® Surface Mount Fuses

## FA Series, 0402 Size



### Features:

- Multilayer monolithic structure with glass ceramic body and silver fusing element
- Silver termination with nickel and pure-tin solder plating, providing excellent solderability
- Compatible with both wave and reflow soldering processes
- Operating temperature range: -55°C to +125°C (with de-rating)

### Clearing Time Characteristics:

% of current rating	Clearing time at 25°C
100%	4 hours min.
250%	5 seconds max.
400%	0.05 seconds max.

### Shape and Dimensions:

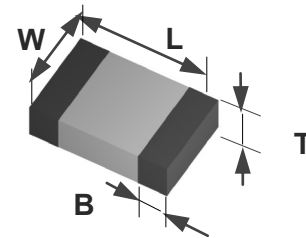
Unit	Inch	mm
L	0.039 ± 0.004	1.00 ± 0.10
W	0.020 ± 0.004	0.51 ± 0.10
T	0.020 ± 0.004	0.51 ± 0.10
B	0.010 ± 0.004	0.25 ± 0.10

### Agency Approval:

Recognized Under the Components Program of UL.  
File Number: E232989.

### Patents:

Patent numbers "US6,034,589", "US6,602,766", "US7,268,661 B2", "ZL00134544.3", "ZL02114719.1", "ZL200410104280.7", "ZL201020551360.8", "ZL201010299185.2", "ZL201220030614.0", "ZL201210020693.1".



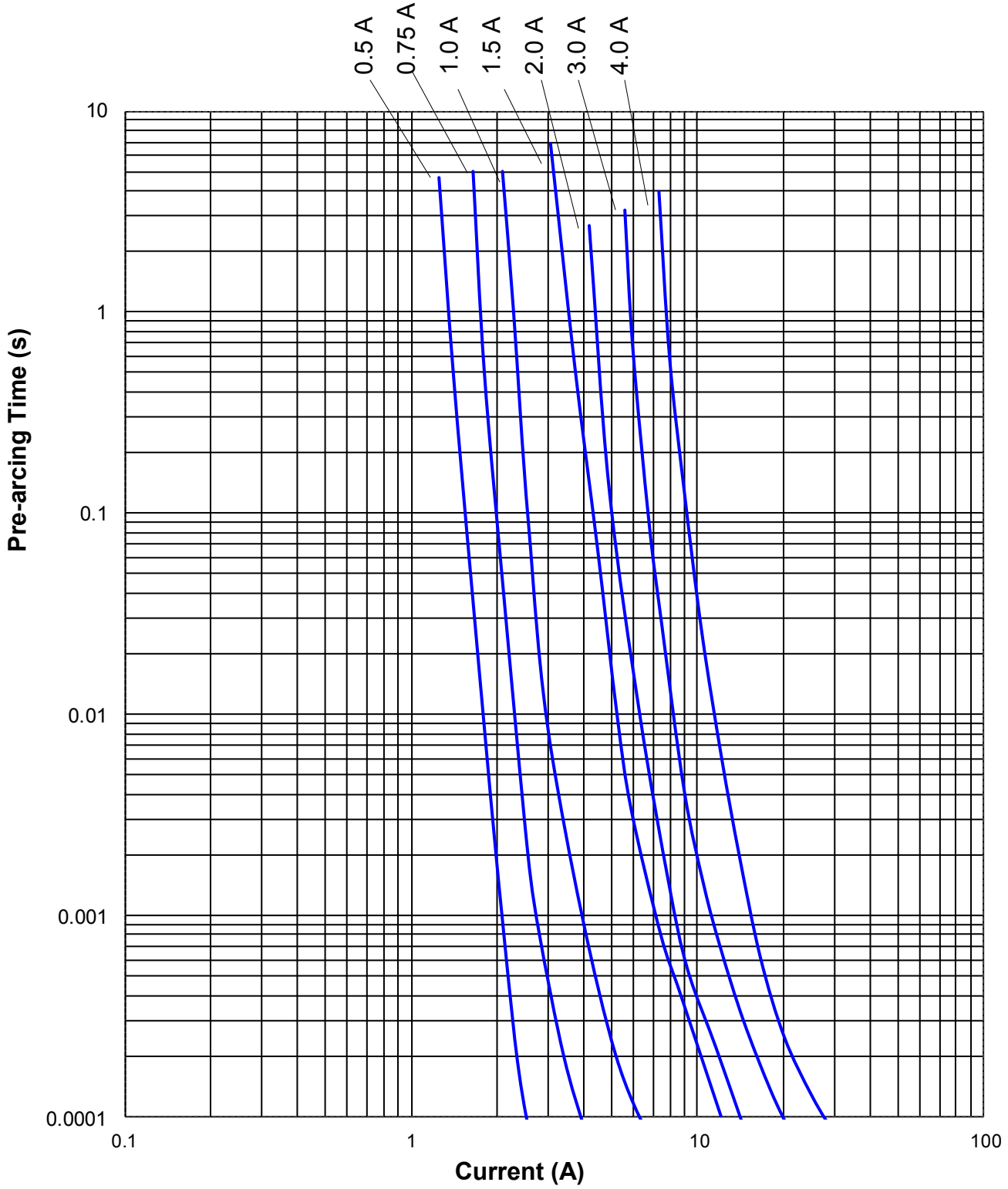
### Ordering Information:

Part Number	Current Rating (A)	Voltage Rating (VDC)	Interrupting Ratings	Nominal Cold DCR ( $\Omega$ ) <sup>1</sup>	Nominal $I^2t$ ( $A^2s$ ) <sup>2</sup>
F0402FA0500V024T	0.5	24	35 A at rated voltage	0.380	0.004
F0402FA0750V024T	0.75	24		0.210	0.007
F0402FA1000V024T	1.0	24		0.120	0.014
F0402FA1500V024T	1.5	24		0.056	0.050
F0402FA2000V024T	2.0	24		0.035	0.070
F0402FA3000V024T	3.0	24		0.021	0.11
F0402FA4000V024T	4.0	24		0.014	0.21

1. Measured at  $\leq 10\%$  rated current and 25°C ambient.  
2. Melting  $I^2t$  at 0.001 second pre-arcing time.

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## Average Pre-arcing Time Curves:



**SolidMatrix<sup>®</sup> Surface Mount Fuses**  
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**Average I<sup>2</sup>t vs. t Curves:**

