

# SolidMatrix® 0603 Fast Acting Surface Mount Fuses



## Features:

- Multilayer monolithic structure with glass ceramic body and silver fusing element
- Silver termination with nickel and pure-tin solder plating, providing excellent solderability
- Standard EIA0603/EIAJ1608 size
- Compatible with both wave and reflow soldering processes
- Operating temperature range: -55°C to +125°C (with de-rating)
- RoHS compliant



## Clearing Time Characteristics (Fast Acting):

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

**Agency Approval:** Recognized Under the Components Program of Underwriters Laboratories. File Number: E232989.

**Patents:** U.S. Patent numbers 6,034,589; 6,602,766; 7,268,661 B2; and other pending patents

## Interrupting Ratings:

0.5 A - 1.0 A      50 A at rated voltage  
1.5 A - 6.0 A      35 A at rated voltages

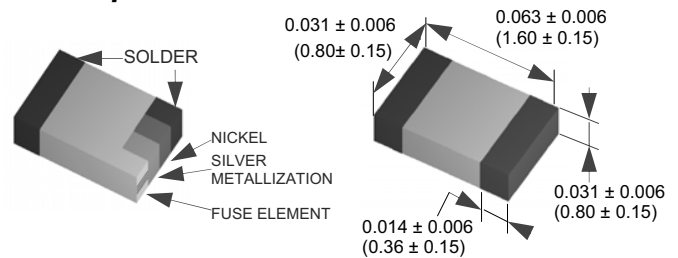
**Marking (Optional):** Black Marking Character Code  
0.5 A:C, 0.75 A:D, 1.0 A:E, 1.5 A:G, 2.0 A:I, 2.5 A:J, 3.0 A:K, 3.5 A:L,  
4.0 A:M, 5.0 A:N, 6.0 A:O

## Ordering Information:

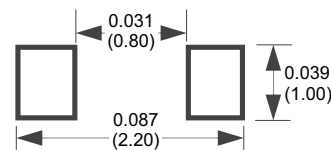
Part Number	Current Rating (A)	Voltage Rating (VDC)	Nominal Cold DCR ( $\Omega$ ) <sup>1</sup>
F0603FA0500V063T	0.5	63	0.485
F0603FA0750V063T	0.75	63	0.254
F0603FA1000V063T	1.0	63	0.147
F0603FA1500V063T	1.5	63	0.059
F0603FA2000V032T	2.0	32	0.044
F0603FA2500V032T	2.5	32	0.032
F0603FA3000V032T	3.0	32	0.025
F0603FA3500V032T	3.5	32	0.024
F0603FA4000V032T	4.0	32	0.018
F0603FA5000V032T	5.0	32	0.013
F0603FA6000V024T	6.0	24	0.010

1. Measured at  $\leq 10\%$  rated current and 25°C ambient.

## Shape and Dimensions:



## Recommended Land Pattern:

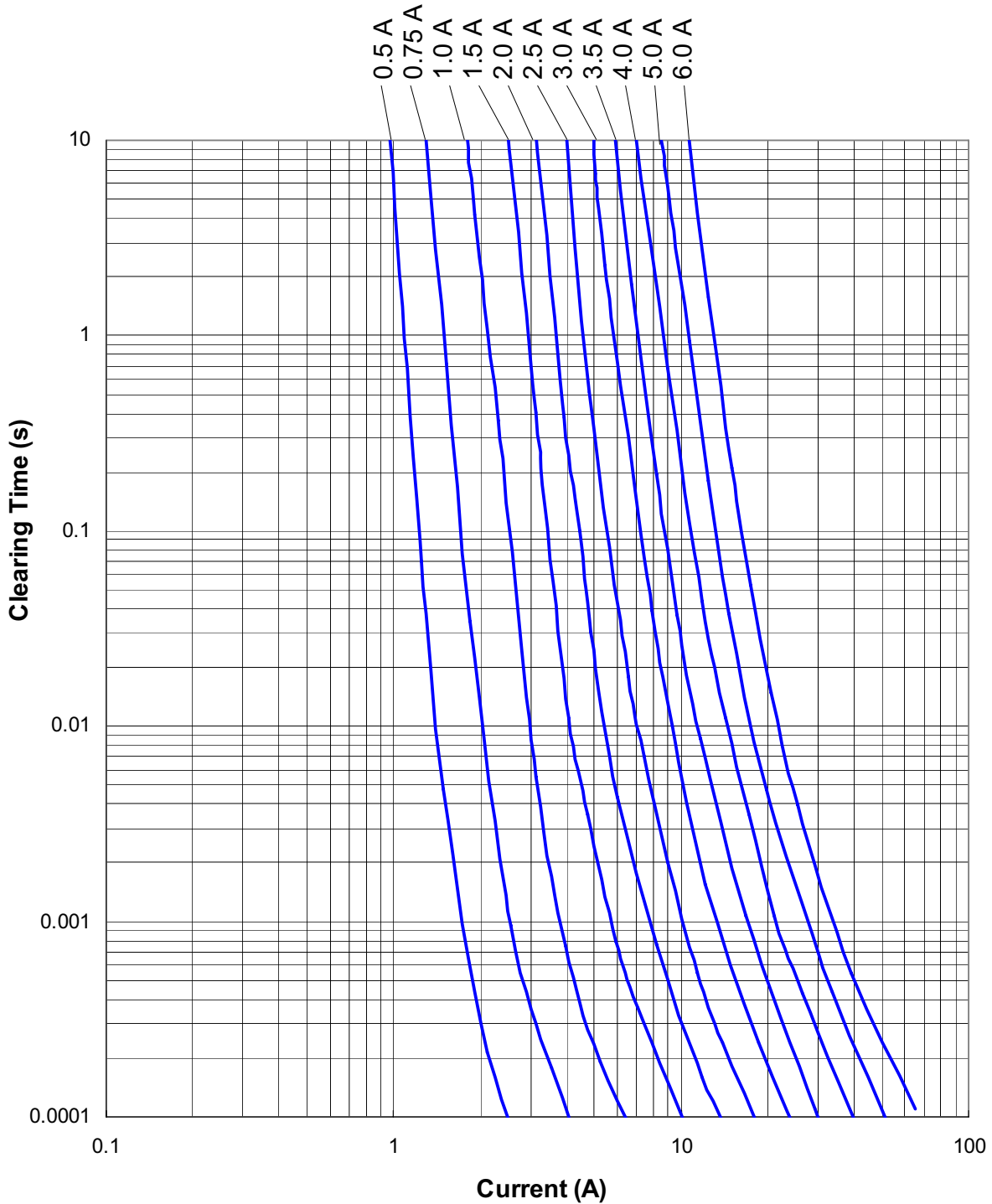


Inch (mm)

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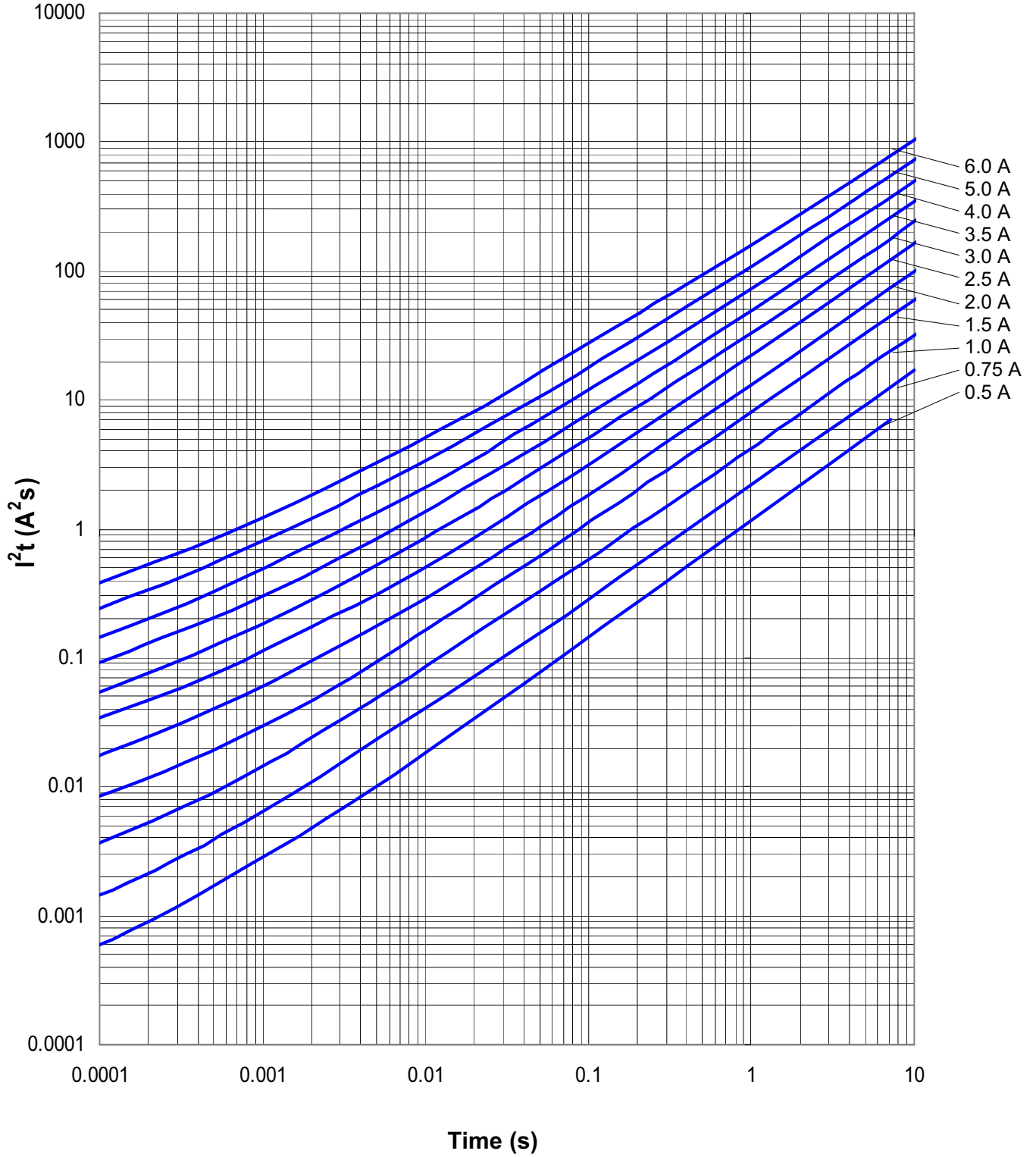
Average Clearing Time Curves



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Average  $I^2t$  vs. t



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Authorized Distributor

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## AEM:

[F0603FA0500V032T](#) [F0603FA0750V032T](#) [F0603FA1000V032T](#) [F0603FA1500V032T](#) [F0603FA2000V032T](#)  
[F0603FA2500V032T](#) [F0603FA3000V032T](#) [F0603FA3500V032T](#) [F0603FA4000V032T](#) [F0603FA5000V032T](#)  
[F0603FA6000V024T](#) [F0603FA1500V063T](#)