

# SolidMatrix® 0603 Very Fast Acting Surface Mount Fuses



## Features:

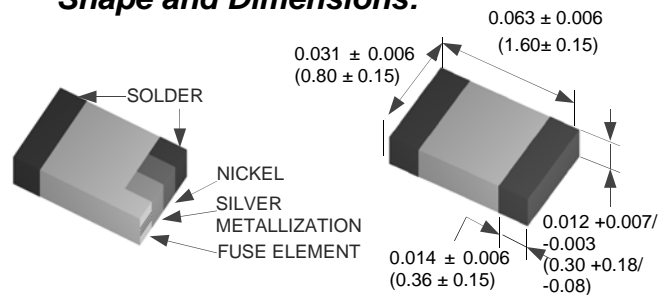
- Very fast acting at 200% and 300% overloads
- Excellent inrush current withstanding capability at high overloads
- Thin body for space limiting applications
- Glass ceramic monolithic structure
- Silver fusing element and silver termination with nickel and tin plating
- RoHS compliant and lead-free materials
- Symmetrical design with marking on both sides (optional)
- Operating temperature range: -55°C to 125 °C (with de-rating)



## Clear-Time Characteristics:

% of Current Rating	Clear-Time at 25°C	
100%	4 hours min.	
200%	0.01 seconds min.	5 seconds max.
300%	0.001 seconds min.	0.2 seconds max.

## Shape and Dimensions:



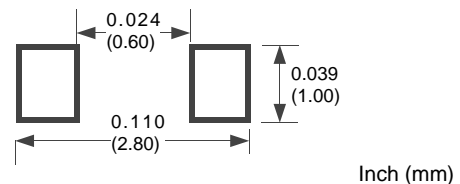
**Agency Approval:** Recognized Under the Components Program of Underwriters Laboratories. File Number: E232989

**Patents:** U.S. Patent numbers 6,034,589; 6,228,230; 6,602,766; 6,844,278; and other pending patents

## Interrupting Rating:

0.5A - 1.0A 50A at rated voltage, 1.25A - 5.0A 35A at rated voltage

## Recommended Land Pattern:



**Marking (Optional):** Blue Marking Character Code  
 0.5A:C, 0.75A:D, 1.0A:E, 1.25A:F, 1.5A:G, 1.75A:H, 2.0A:I, 2.5A:J,  
 3.0A:K, 3.5A:L, 4.0A:M, 4.5A:T, 5.0A:N

## Ordering Information:

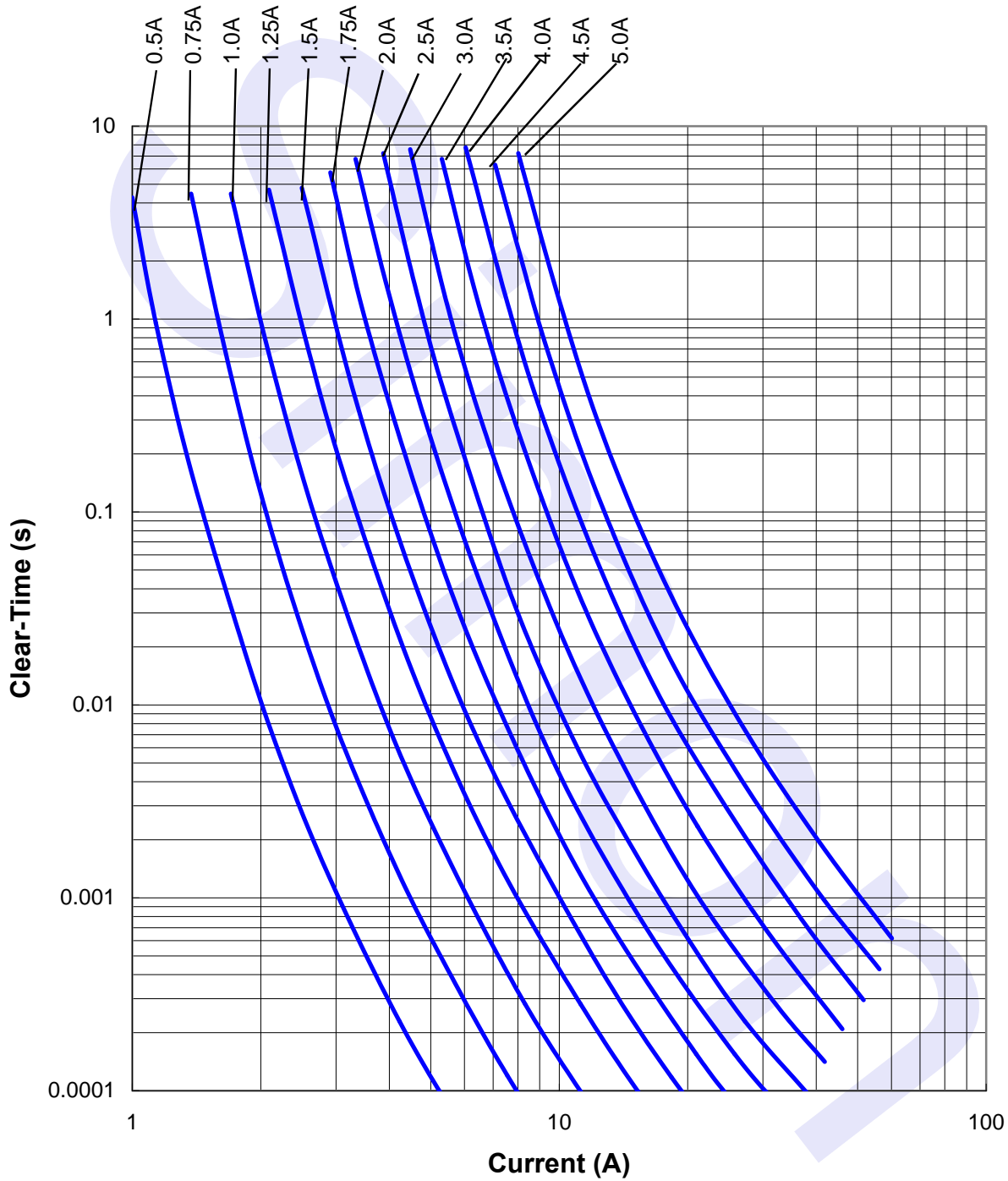
Part Number	Current Rating (A)	Voltage Rating (VDC)	Nominal Cold DCR ( $\Omega$ ) <sup>1</sup>	Nominal $I^2t$ ( $A^2s$ ) <sup>2</sup>
F0603FF0500V032T	0.5	32	0.86	0.0093
F0603FF0750V032T	0.75	32	0.45	0.0191
F0603FF1000V032T	1.0	32	0.28	0.036
F0603FF1250V032T	1.25	32	0.205	0.063
F0603FF1500V032T	1.5	32	0.136	0.095
F0603FF1750V032T	1.75	32	0.095	0.14
F0603FF2000V032T	2.0	32	0.069	0.21
F0603FF2500V032T	2.5	32	0.046	0.30
F0603FF3000V032T	3.0	32	0.039	0.46
F0603FF3500V032T	3.5	32	0.028	0.73
F0603FF4000V032T	4.0	32	0.023	1.15
F0603FF4500V032T	4.5	32	0.019	1.68
F0603FF5000V032T	5.0	32	0.015	2.62

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

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### Average Clear-Time Curves



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### Average $I^2t$ vs. t Curves

