

## SolidMatrix® Surface Mount Fuses

### FA Series (Fast Acting), 0603 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:

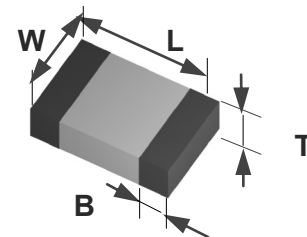
Unit	Inch	mm
L	0.063 ± 0.006	1.60 ± 0.15
W	0.031 ± 0.006	0.80 ± 0.15
T	0.031 ± 0.006	0.80 ± 0.15
B	0.014 ± 0.006	0.36 ± 0.15

#### 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 <sup>2</sup> t (A <sup>2</sup> s) <sup>2</sup>	Marking (Optional) <sup>3</sup>
F0603FA0500V063T	0.5	63	35 A at rated voltages	0.485	0.003	C
F0603FA0750V063T	0.75	63		0.254	0.006	D
F0603FA1000V063T	1.0	63		0.147	0.013	E
F0603FA1500V063T	1.5	63		0.059	0.030	G
F0603FA2000V032T	2.0	32		0.044	0.060	I
F0603FA2500V032T	2.5	32		0.032	0.10	J
F0603FA3000V032T	3.0	32		0.025	0.18	K
F0603FA3500V032T	3.5	32		0.024	0.30	L
F0603FA4000V032T	4.0	32		0.018	0.50	M
F0603FA5000V032T	5.0	32		0.013	0.80	N
F0603FA6000V024T	6.0	24		0.010	1.10	O

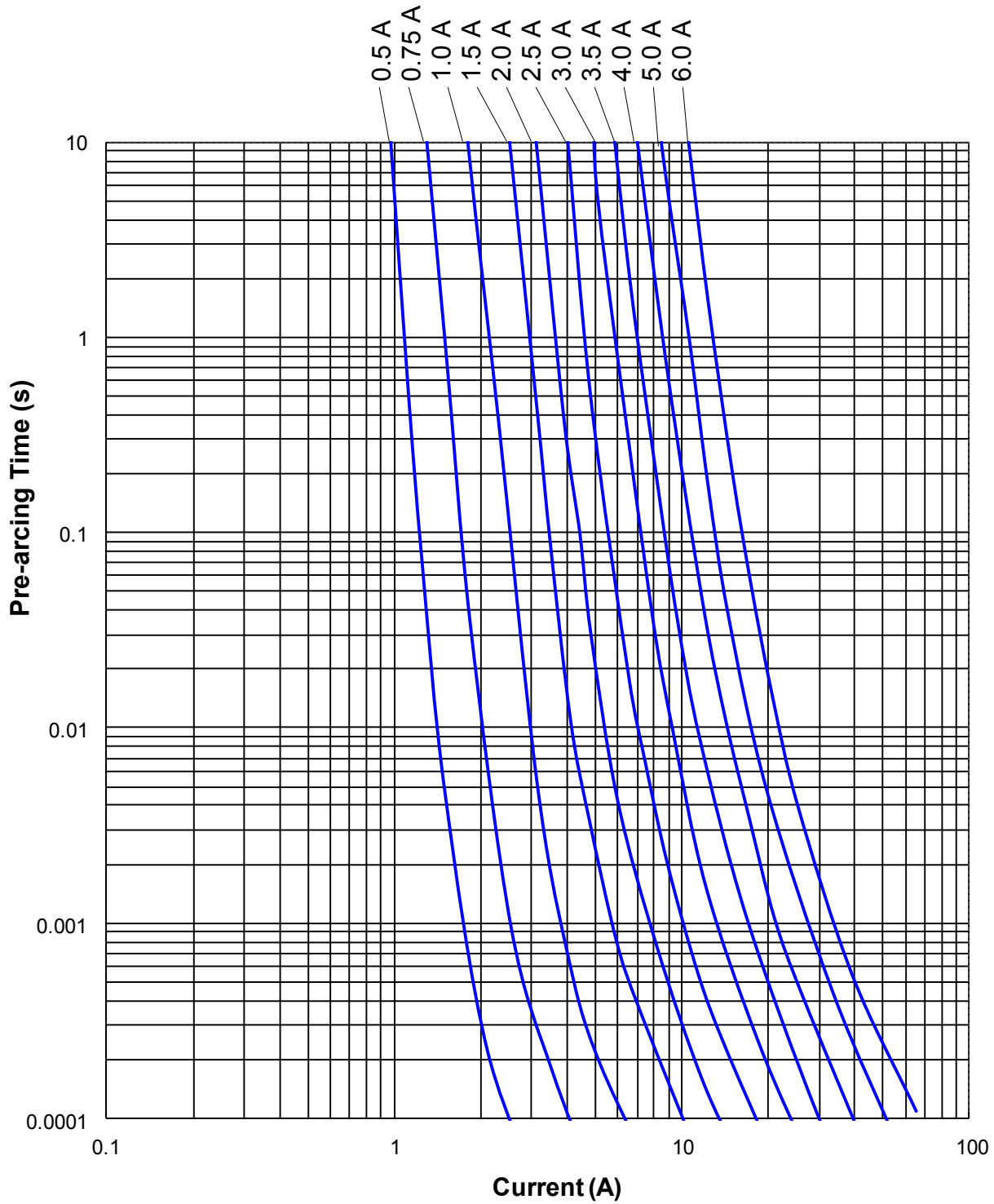
1. Measured at ≤ 10% rated current and 25°C ambient.

2. Melting I<sup>2</sup>t at 0.001 second pre-arcing time.

3. Black Marking Character Code.

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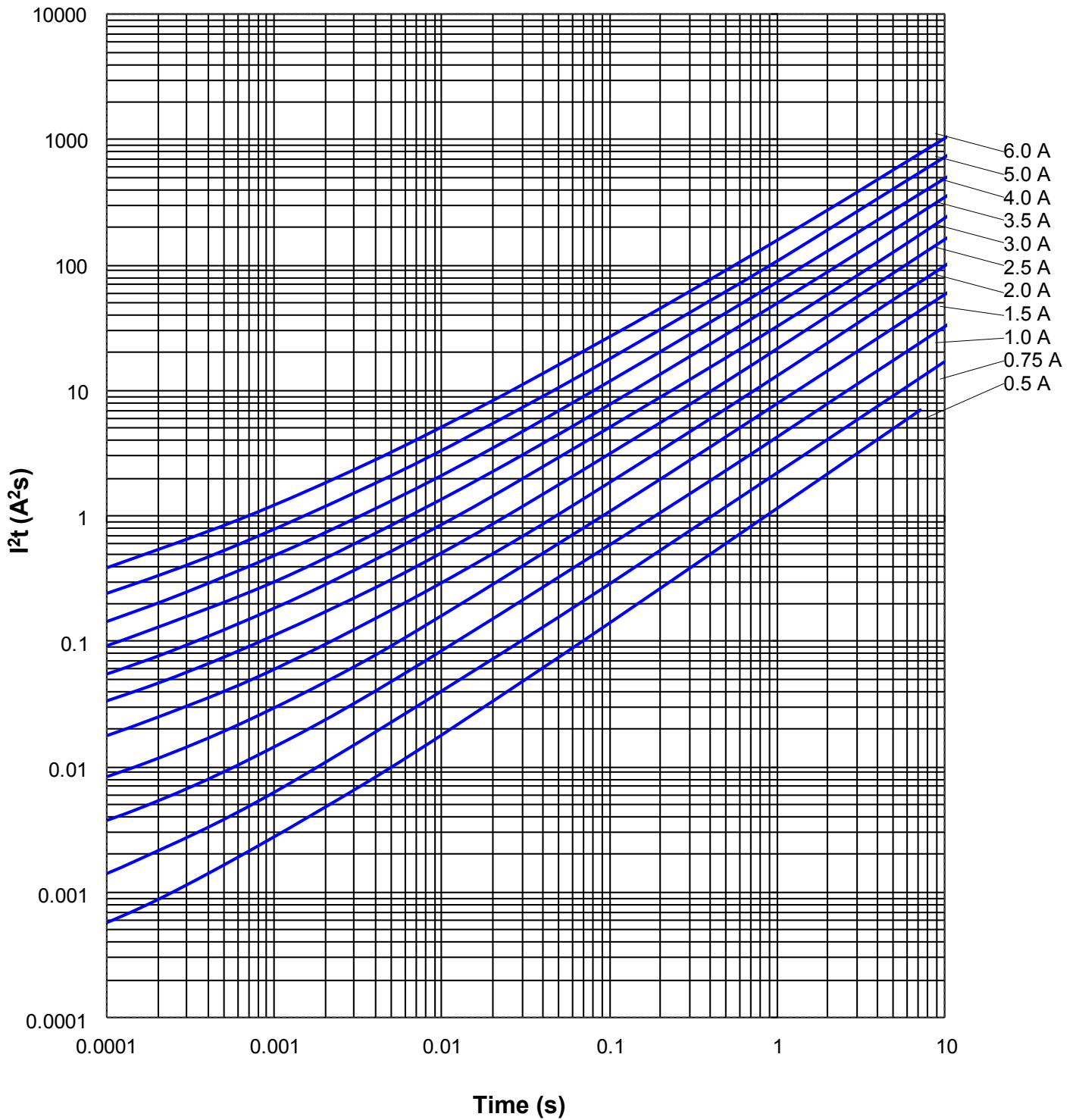
**Average Pre-arcing Time Curves:**



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



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