

# SolidMatrix 1206 High Inrush Current Surface Mount Fuses

## Features:

- High inrush current withstanding capability
- Ceramic Monolithic structure
- Sliver fusing element and silver termination with nickel and tin plating
- RoHS compliant materials
- Standard EIA 1206/EIAJ3216 size
- Symmetrical design with marking on both sides (optional)
- Operating temperature: -55°C to 125 °C (with de-rating)



## Clear-Time Characteristics:

% of Current Rating	Opening Time at 25°C	
	Min.	Max.
100%	4 hours	
200%	1 sec	60 sec
1000%	0.0002 sec	0.02 sec

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

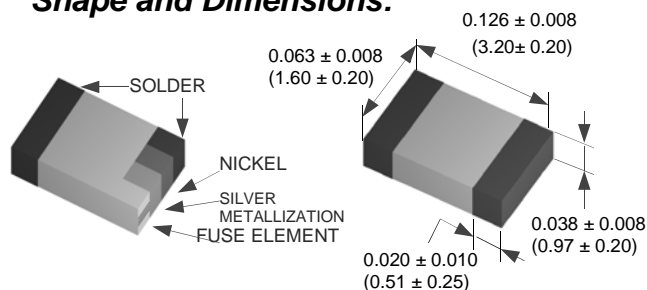
**Patents:** U.S. Patent numbers 6,034,589, 6,228,230, 6,602,766, and other pending patents

## Interrupting Ratings:

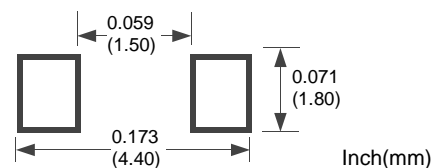
1A - 5A      50A at rated voltages

**Marking(Optional):** Green Marking Character Code  
1A:E, 1.5A:G, 2A:I, 2.5A:J, 3A:K, 3.5A:L, 4A:M, 4.5A:T, 5A:N

## Shape and Dimensions:



## Recommended Land Pattern:



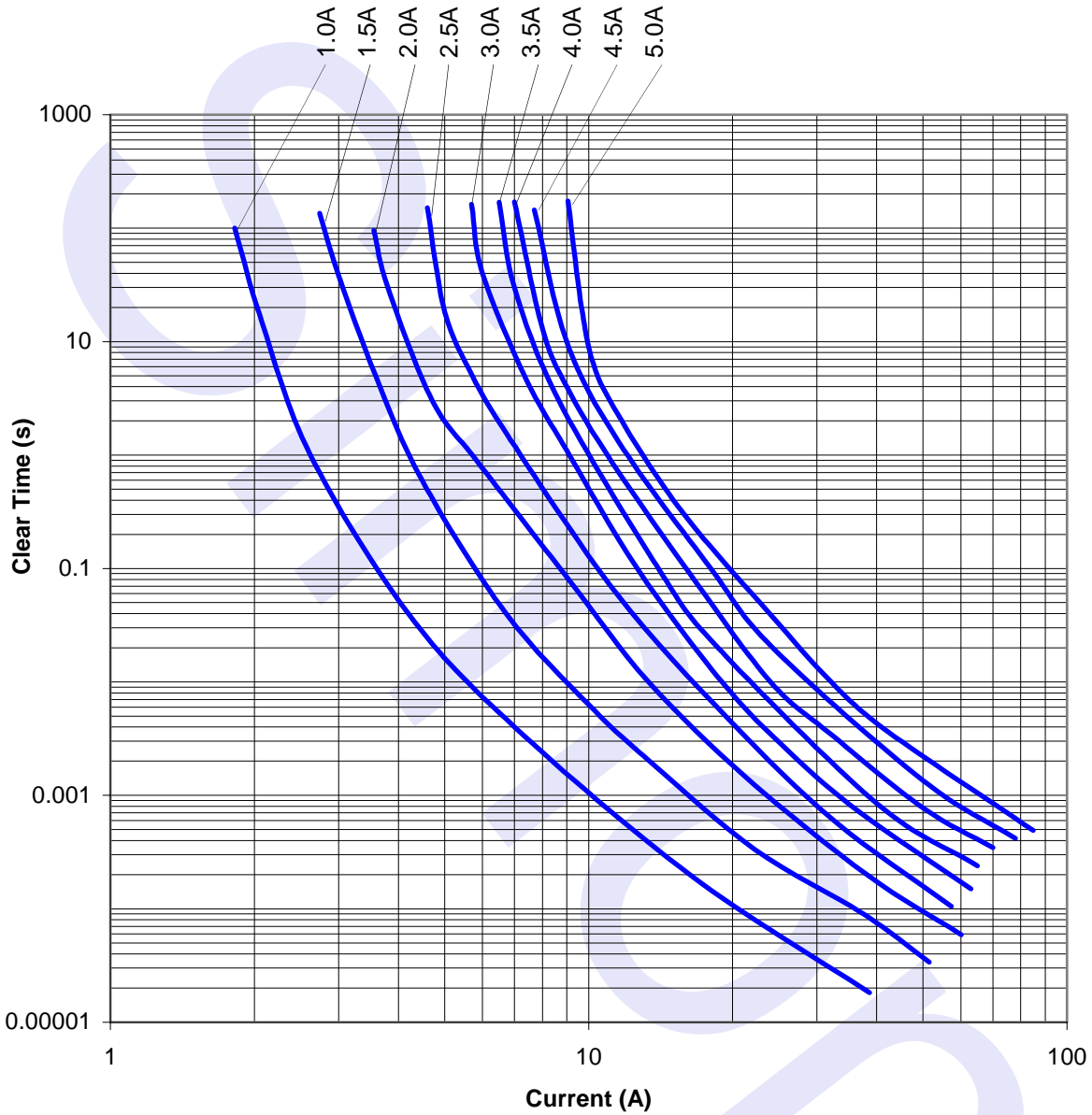
## Ordering Information:

Part Number	Current Rating (A)	Voltage Rating (VDC)	Nominal Cold DCR ( $\Omega$ ) <sup>1</sup>	Nominal $I^2t$ ( $A^2s$ ) <sup>2</sup>
F1206HI1000V063T	1.00	63	0.340	0.11
F1206HI1500V063T	1.50	63	0.150	0.33
F1206HI2000V063T	2.00	63	0.090	0.80
F1206HI2500V032T	2.50	32	0.070	1.19
F1206HI3000V032T	3.00	32	0.035	1.35
F1206HI3500V032T	3.50	32	0.029	1.84
F1206HI4000V032T	4.00	32	0.023	2.74
F1206HI4500V032T	4.50	32	0.021	3.20
F1206HI5000V032T	5.00	32	0.017	5.50

1. Measured at  $\leq 10\%$  of rated current and 25°C ambient  
 2. Melting  $I^2t$  at 1000% of current rating

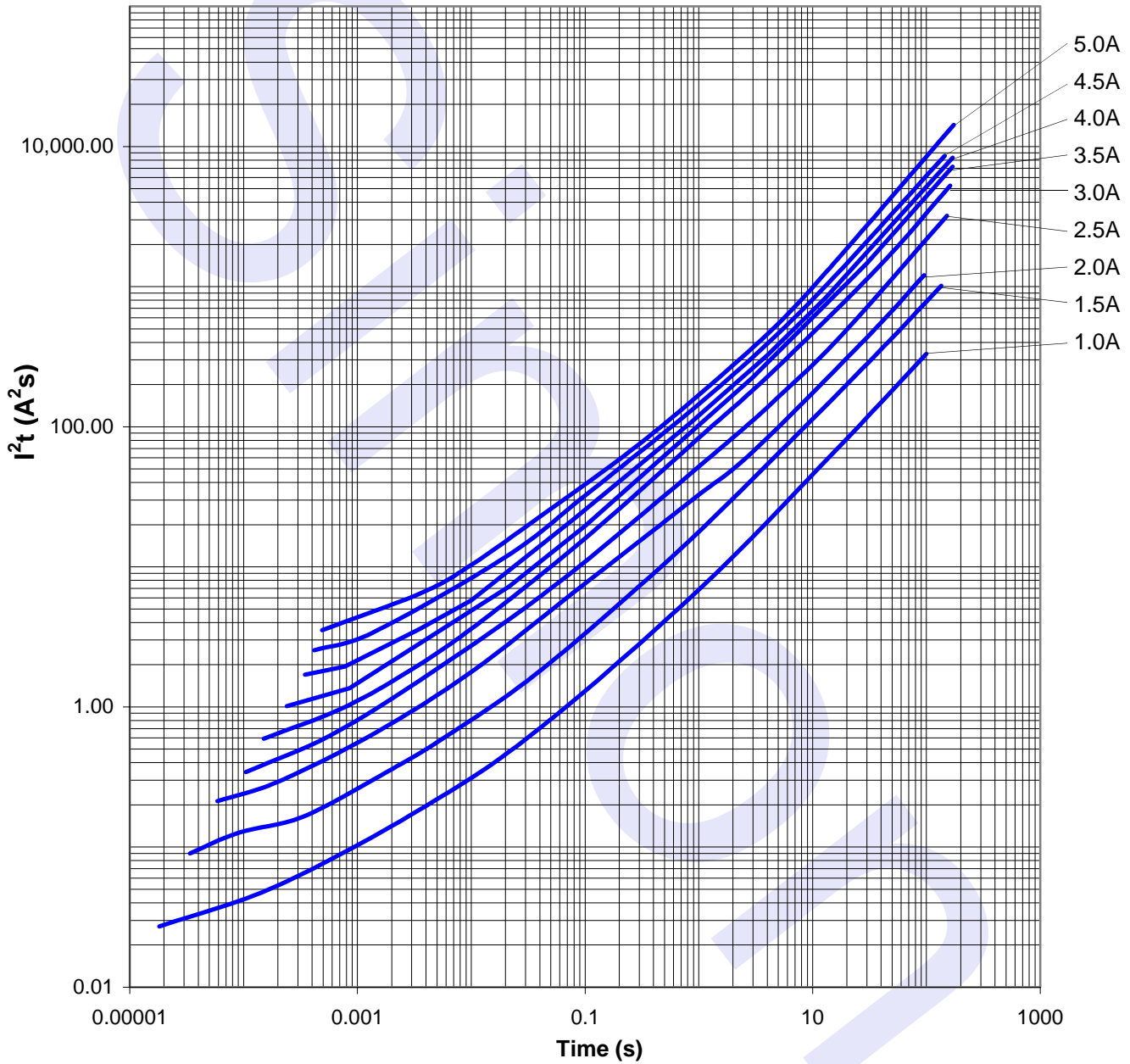
# SolidMatrix 1206 High Inrush Current Surface Mount Fuses

Average Clear-Time Curves



# SolidMatrix 1206 High Inrush Current Surface Mount Fuses

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



# SolidMatrix 0603 High Inrush Current Surface Mount Fuses

## Features:

- High inrush current withstanding capability
- Ceramic Monolithic structure
- Sliver fusing element and silver termination with nickel and tin plating
- RoHS compliant materials
- Standard EIA 0603/EIAJ1608 size
- Symmetrical design with marking on both sides (optional)
- Operating temperature: -55°C to 125 °C (with de-rating)



## Clear-Time Characteristics:

% of Current Rating	Opening Time at 25°C	
	Min.	Max.
100%	4 hours	
200%	1 sec	60 sec
1000%	0.0002 sec	0.02 sec

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

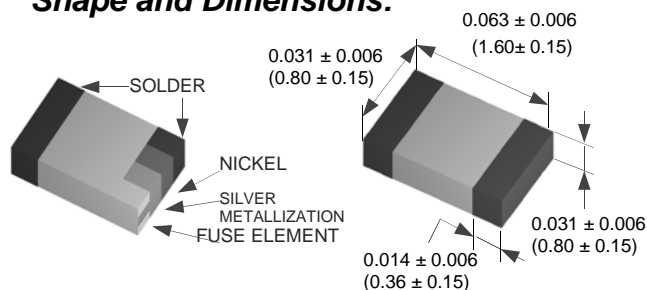
**Patents:** U.S. Patent numbers 6,034,589, 6,228,230, 6,602,766, and other pending patents

## Interrupting Ratings:

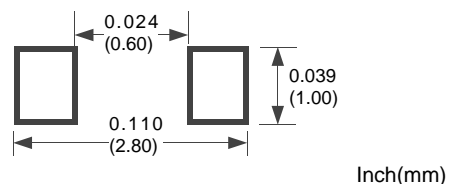
1A - 5A      50A at rated voltage

**Marking(Optional):** Green Marking Character Code  
1A:E, 1.5A:G, 2A:I, 2.5A:J, 3A:K, 3.5A:L, 4A:M, 4.5A:T, 5A:N

## Shape and Dimensions:



## Recommended Land Pattern:



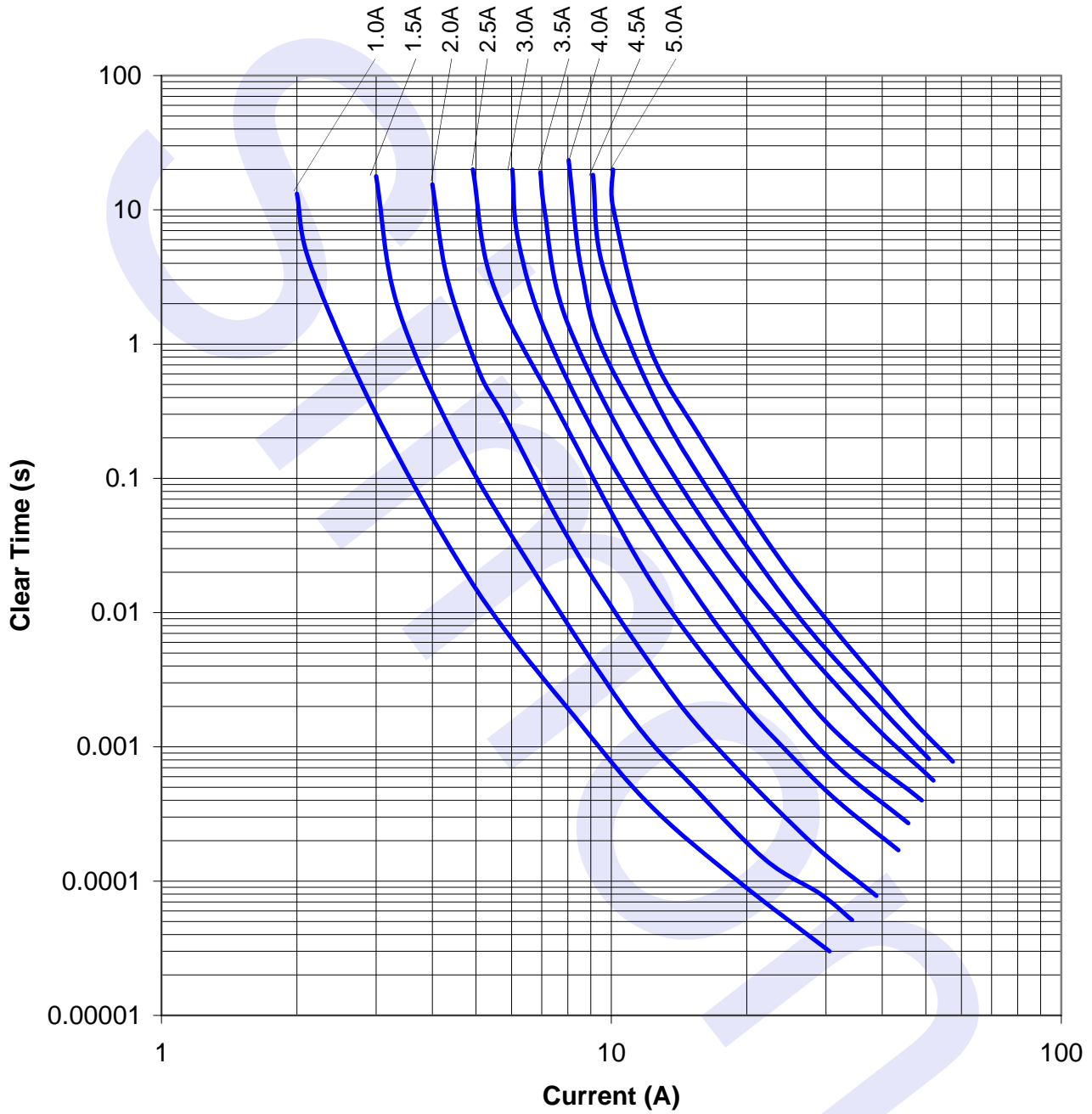
## Ordering Information:

Part Number	Current Rating (A)	Voltage Rating (VDC)	Nominal Cold DCR ( $\Omega$ ) <sup>1</sup>	Nominal $I^2t$ ( $A^2s$ ) <sup>2</sup>
F0603HI1000V032T	1.00	32	0.190	0.08
F0603HI1500V032T	1.50	32	0.101	0.11
F0603HI2000V032T	2.00	32	0.057	0.24
F0603HI2500V032T	2.50	32	0.042	0.56
F0603HI3000V032T	3.00	32	0.030	0.72
F0603HI3500V032T	3.50	32	0.022	1.10
F0603HI4000V032T	4.00	32	0.018	2.08
F0603HI4500V032T	4.50	32	0.014	2.63
F0603HI5000V032T	5.00	32	0.013	3.25

1. Measured at  $\leq 10\%$  of rated current and 25°C ambient  
2. Melting  $I^2t$  at 1000% of current rating

# SolidMatrix 0603 High Inrush Current Surface Mount Fuses

*Average Clear-Time Curves*



# SolidMatrix 0603 High Inrush Current Surface Mount Fuses

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

