

# SolidMatrix® 1206 High Inrush Current Surface Mount Fuses



## Features:

- High inrush current withstanding capability
- Ceramic Monolithic structure
- Silver 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)



## Clearing Time Characteristics:

% of Current Rating	Clearing time at 25°C	
100 %	4 hours min.	
200 %	1 second min.	60 seconds max.
1000 % (1.0 A -5.0 A)	0.0002 seconds min.	0.02 seconds max.
1000 % (6.0 A -8.0 A)	0.0002 seconds min.	0.04 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:

1.0 A - 5.0 A	50 A at rated voltages
6.0 A - 8.0 A	80 A at rated voltage

**Marking (Optional):** Green Marking Character Code

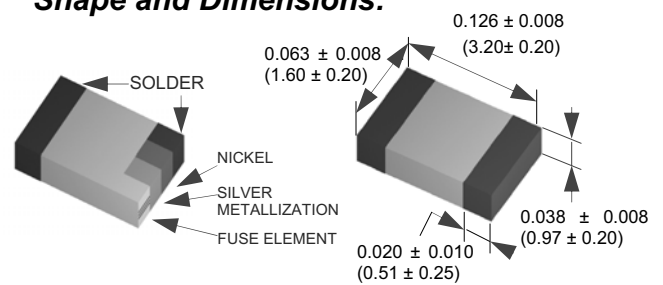
1.0 A:E, 1.5 A:G, 2.0 A:I, 2.5 A:J, 3.0 A:K, 3.5 A:L, 4.0 A:M, 4.5 A:T, 5.0 A:N, 6.0 A:O, 7.0 A:P, 8.0 A:R

## Ordering Information:

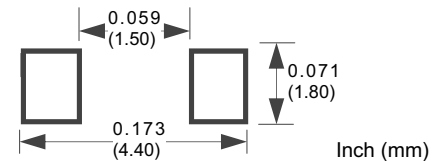
Part Number	Current Rating (A)	Voltage Rating (VDC)	Nominal Cold DCR ( $\Omega$ ) <sup>1</sup>	Nominal $I^2t$ ( $A^2s$ ) <sup>2</sup>
F1206HI1000V063T	1.0	63	0.340	0.11
F1206HI1500V063T	1.5	63	0.150	0.33
F1206HI2000V063T	2.0	63	0.090	0.80
F1206HI2500V032T	2.5	32	0.065	1.19
F1206HI3000V032T	3.0	32	0.035	1.35
F1206HI3500V032T	3.5	32	0.029	1.84
F1206HI4000V032T	4.0	32	0.023	2.74
F1206HI4500V032T	4.5	32	0.021	3.20
F1206HI5000V032T	5.0	32	0.017	5.50
F1206HI6000V024T	6.0	24	0.013	12.5
F1206HI7000V024T	7.0	24	0.010	30.0
F1206HI8000V024T	8.0	24	0.009	60.0

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

## Shape and Dimensions:



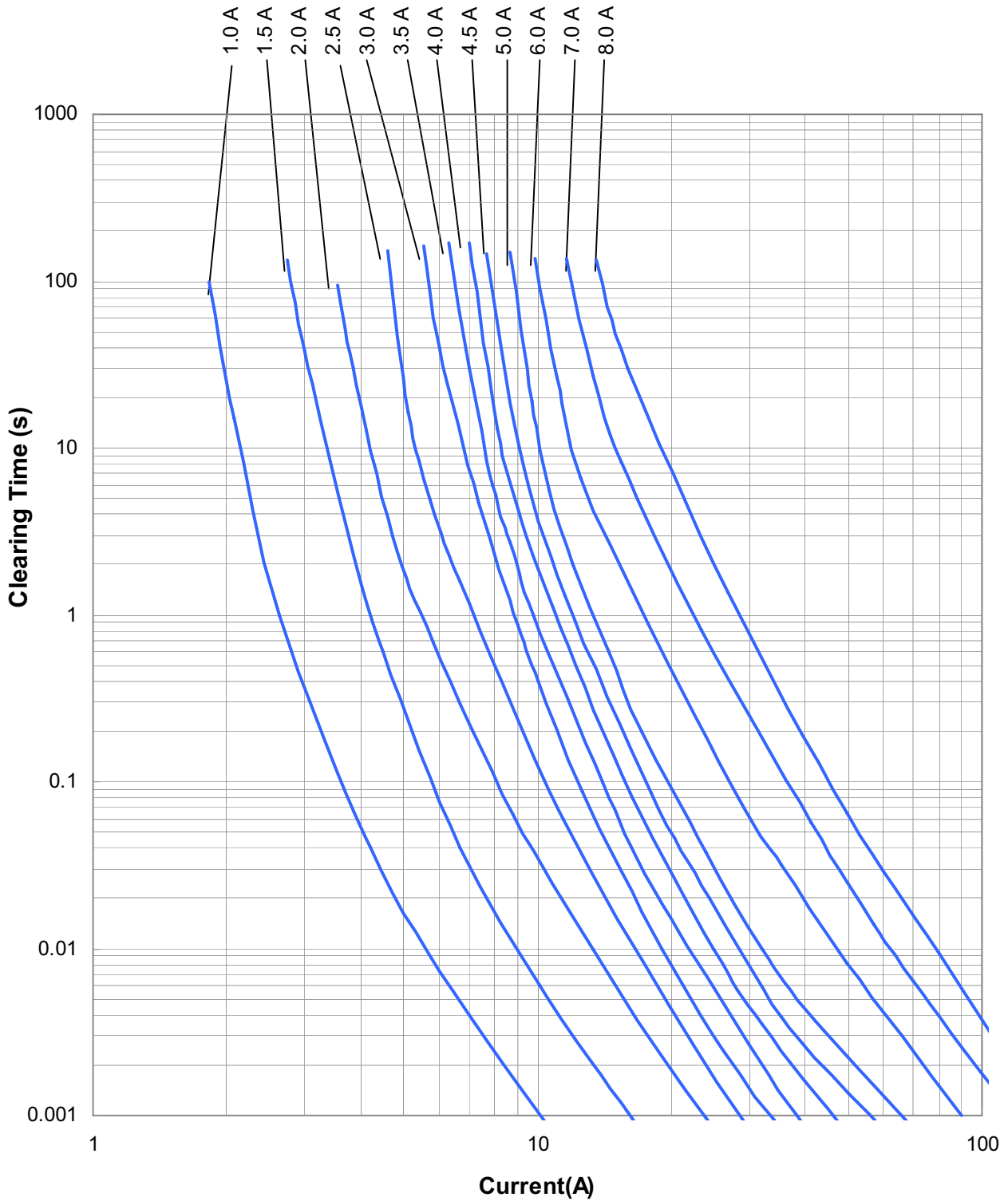
## Recommended Land Pattern:



# SolidMatrix® 1206 High Inrush Current Surface Mount Fuses



*Average Clearing Time Curves*



# SolidMatrix® 1206 High Inrush Current Surface Mount Fuses



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

