

SolidMatrix[®] Automotive Surface Mount Fuses

QF1206F Series

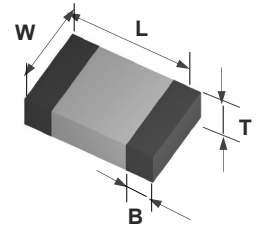


Agency Approval:

| Agency | File NO. |
|--------|----------|
| UL | E232989 |

Shape and Dimensions:

| Unit | Inch | mm |
|------|---------------|-------------|
| L | 0.126 ± 0.008 | 3.20 ± 0.20 |
| W | 0.063 ± 0.008 | 1.60 ± 0.20 |
| T | 0.033 ± 0.008 | 0.85 ± 0.20 |
| B | 0.020 ± 0.010 | 0.51 ± 0.25 |



Clearing Time Characteristics:

| % of current rating | Clearing time at 25°C | |
|---------------------|-----------------------|-----------|
| | Min. | Max. |
| 100% | 4 hours | |
| 250% | | 5 seconds |

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 +150°C (with de-rating)
- AEC-Q200 Rev.E qualified & ISO IATF16949 certified

Applications:

- Communications & Networks
- Battery Management Systems
- Infotainment Systems
- Under-the-hood Applications

Ordering Information:

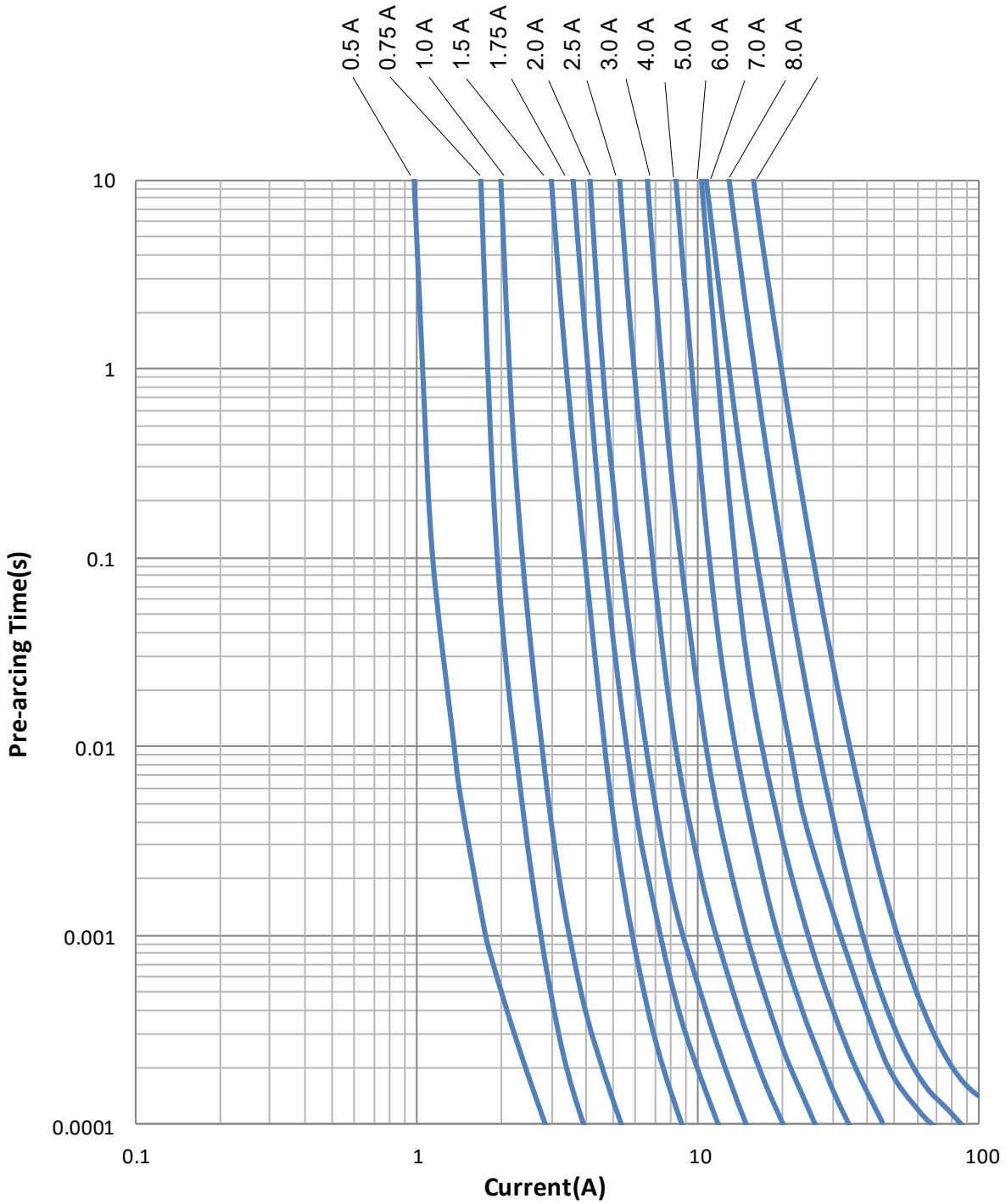
| Part Number | Current Rating (A) | Voltage Rating (VDC) | Interrupting Ratings | Nominal Cold DCR (Ω) ¹ | Nominal I^2t (A^2s) ² | Marking Code ³ |
|--------------|--------------------|----------------------|----------------------|--|--|---------------------------|
| QF1206FA500T | 0.5 | 63 | 50A @ 63VDC | 0.780 | 0.003 | C |
| QF1206FA750T | 0.75 | | | 0.530 | 0.008 | D |
| QF1206F1A00T | 1.0 | | | 0.250 | 0.012 | E |
| QF1206F1A50T | 1.5 | | | 0.110 | 0.026 | G |
| QF1206F1A75T | 1.75 | | | 0.098 | 0.046 | H |
| QF1206F2A00T | 2.0 | | | 0.054 | 0.076 | I |
| QF1206F2A50T | 2.5 | 32 | 50A @ 32VDC | 0.040 | 0.115 | J |
| QF1206F3A00T | 3.0 | | 50A @ 32VDC | 0.036 | 0.220 | K |
| QF1206F4A00T | 4.0 | | 45A @ 32VDC | 0.022 | 0.360 | M |
| QF1206F5A00T | 5.0 | | 45A @ 32VDC | 0.015 | 0.620 | N |
| QF1206F6A00T | 6.0 | | 45A @ 32VDC | 0.013 | 0.850 | + |
| QF1206F7A00T | 7.0 | | 50A @ 32VDC | 0.011 | 1.030 | - |
| QF1206F8A00T | 8.0 | | 50A @ 32VDC | 0.008 | 2.040 | = |

1. Measured at $\leq 10\%$ rated current and 25°C ambient.
2. Melting I^2t at 0.001 second pre-arcing time.
3. Black Marking Character Code.

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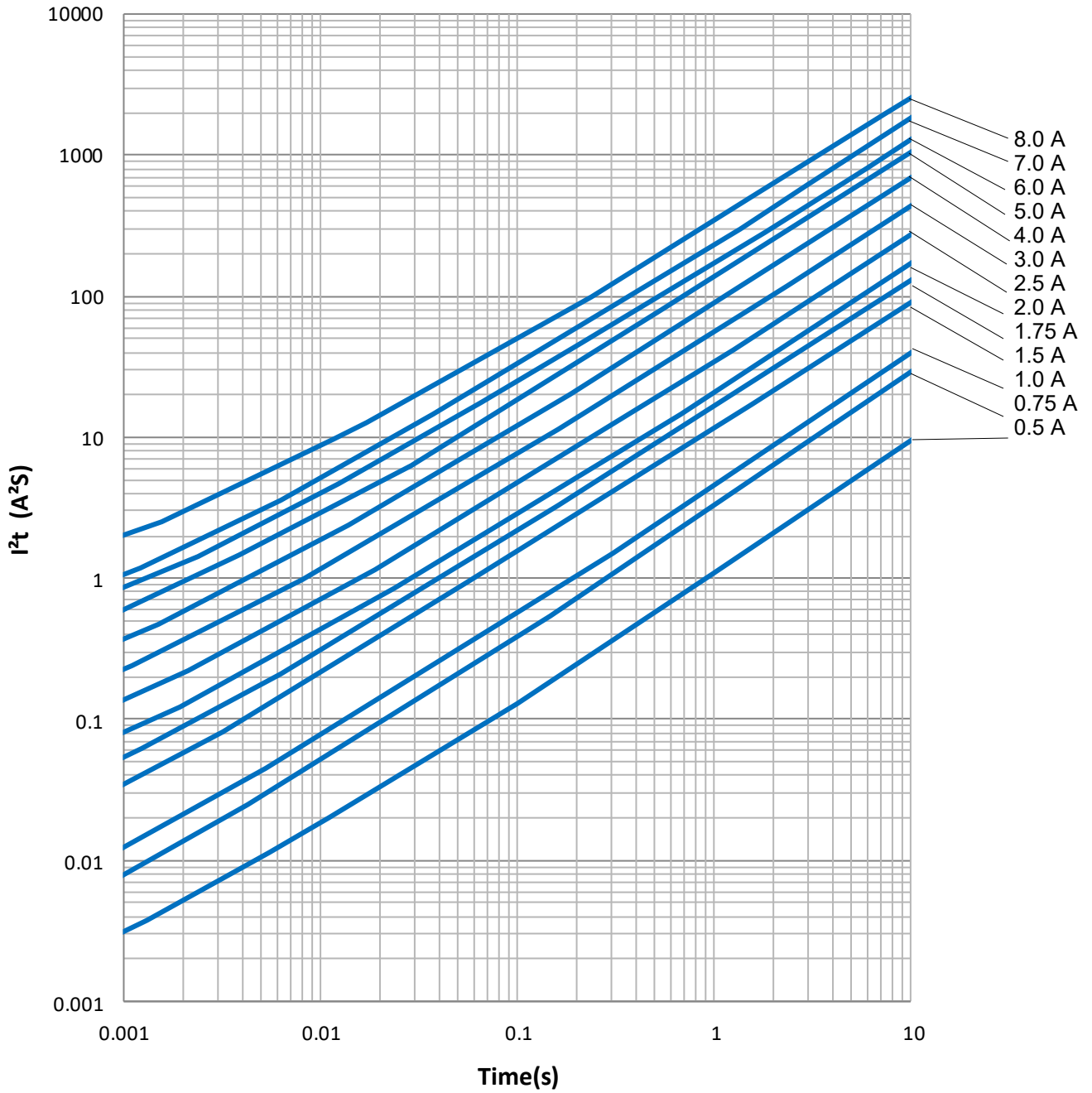
Average Pre-arcing Time Curves:



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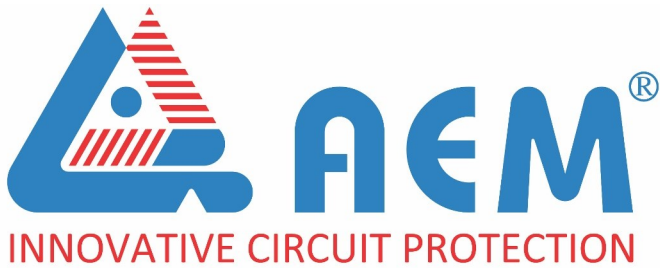
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Average I^2t vs. t Curves:



Disclaimer

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