

SolidMatrix[®] Automotive Surface Mount Fuses

QF0603G Series

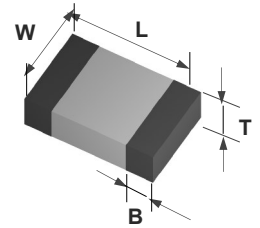


Agency Approval:

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

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 |



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:

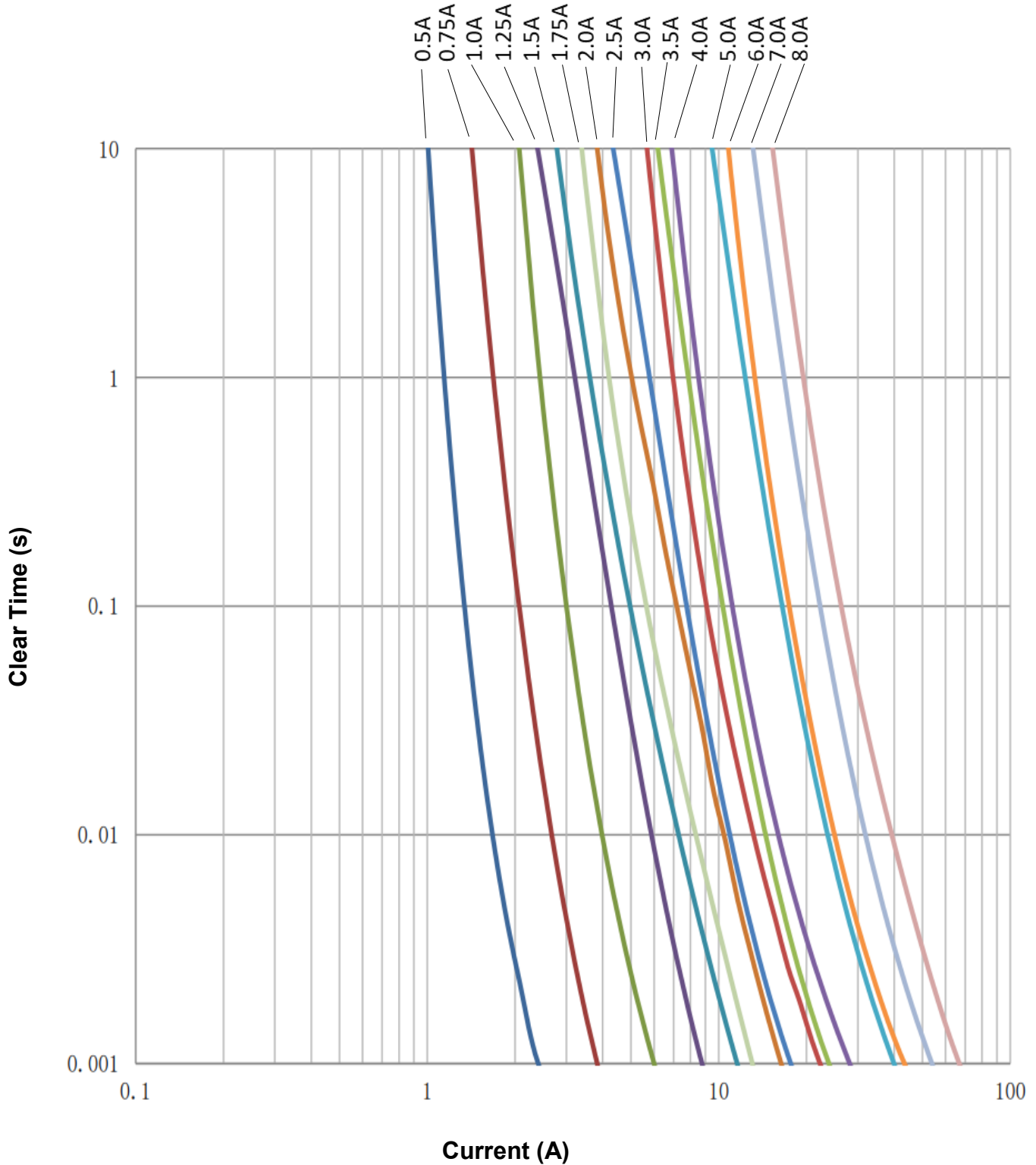
| Part Number | Current Rating (A) | Voltage Rating (VDC) | Interrupting Ratings | Nominal Cold DCR (Ω) ¹ | Nominal I^2t (A^2s) ² | Marking Code ³ |
|--------------|--------------------|----------------------|----------------------|--|--|---------------------------|
| QF0603GA500T | 0.5 | 65 | 50A @ 65VDC | 0.827 | 0.004 | C |
| QF0603GA750T | 0.75 | | | 0.373 | 0.012 | D |
| QF0603G1A00T | 1.0 | | | 0.237 | 0.030 | E |
| QF0603G1A25T | 1.25 | | | 0.153 | 0.065 | F |
| QF0603G1A50T | 1.5 | | | 0.116 | 0.10 | G |
| QF0603G1A75T | 1.75 | | | 0.091 | 0.145 | H |
| QF0603G2A00T | 2.0 | 35 | 50A @ 35VDC | 0.067 | 0.18 | I |
| QF0603G2A50T | 2.5 | | | 0.039 | 0.22 | J |
| QF0603G3A00T | 3.0 | | | 0.029 | 0.34 | K |
| QF0603G3A50T | 3.5 | | | 0.024 | 0.39 | L |
| QF0603G4A00T | 4.0 | | | 0.020 | 0.53 | M |
| QF0603G5A00T | 5.0 | | | 0.012 | 0.88 | N |
| QF0603G6A00T | 6.0 | 24 | 80A @ 24VDC | 0.011 | 1.09 | O |
| QF0603G7A00T | 7.0 | | | 0.008 | 1.86 | P |
| QF0603G8A00T | 8.0 | | | 0.007 | 2.7 | R |

1. Measured at ≤10% of rated current and 25°C ambient.
2. Melting I^2t at 0.001 second pre-arcing time.
3. Cyan marking character code.

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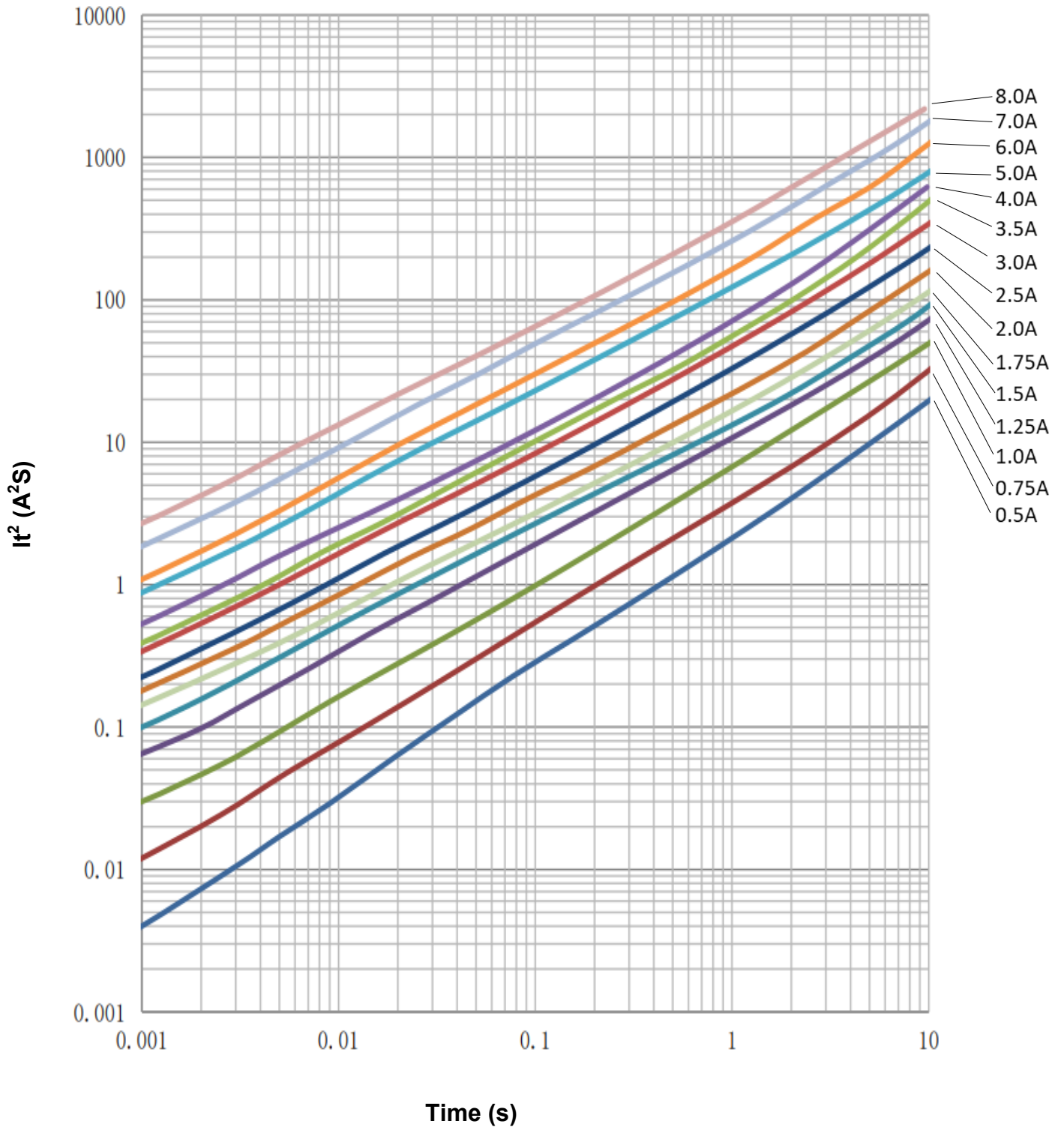
Average Pre-arcing Time Curves:



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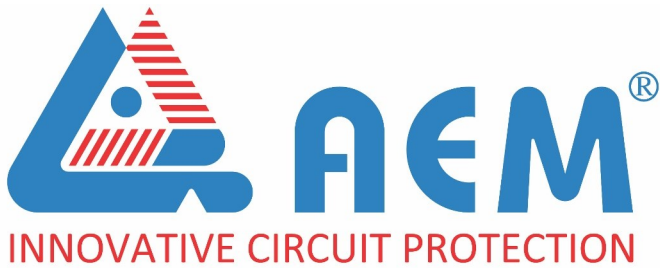
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Average I^2t vs. t Curves:



Disclaimer

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