



THE DATASHEET OF
0686-2000-01



Type C2Q

Surface Mount Very Fast-Acting Chip Fuse

HF **Pb** C2Q Series - 0603 Size

RoHS 6 Compliant

Features

- Fast Acting
- Small size, 0603 SMD
- Current rating from 250mA to 5A
- Wide operating temperature range from -55 °C to 125 °C
- Tape and Reel for automatic SMD placement
- Compatible with reflow and wave soldering
- RoHS 6 compliant (MSL = 1)
- Halogen Free
- Leadfree

Applications

- Notebook
- LCD monitor
- PC computer
- Office electronic equipment
- Industrial equipment
- Medical equipment
- POE, POE+
- LCD / LED monitor
- Power supply
- LCD / LED TV
- DC-DC Converter



LEAD FREE = **Pb**
 HALOGEN FREE = **HF**

Electrical Characteristics (UL STD. 248-14)



| Testing Current | Blow Time | |
|-----------------|-----------|---------|
| | Minimum | Maximum |
| 100% | 4 Hrs. | N/A |
| 200% | N/A | 5 Sec |
| 300% | N/A | 0.2 Sec |

Safety Agency Approvals

| SAFETY AGENCY | SAFETY AGENCY CERTIFICATE | VOLTAGE RATING (V) | AMPERE RANGE / VOLT @ I.R. ABILITY* |
|---------------|---------------------------|-------------------------------|---|
| UL US | E20624 | 250mA - 4A / 32V AC 63V DC | 250mA - 4A / 32V AC @ 35A 63V DC @ 50A |
| | | 5A / 32V AC & DC | 5A / 32V AC & DC @ 50A |

* I.R. = INTERRUPTING RATING = SHORT CIRCUIT RATING (AMPS)

Physical Specifications

| | |
|-----------|---|
| Materials | Body : Ceramic Substrate |
| | Terminations : Ag / Ni / Sn (100% Lead-free) |
| | Element Cover Coating : Lead-free Glass |
| Marking | On Fuse : |
| | None |
| | On Label : |
| | "bel", "C2Q", "Current Rating", "Voltage Rating", "Interrupting Rating", " Appropriate Safety Logos" and "  ", "  " (China RoHS compliant). |

Specifications subject to change without notice



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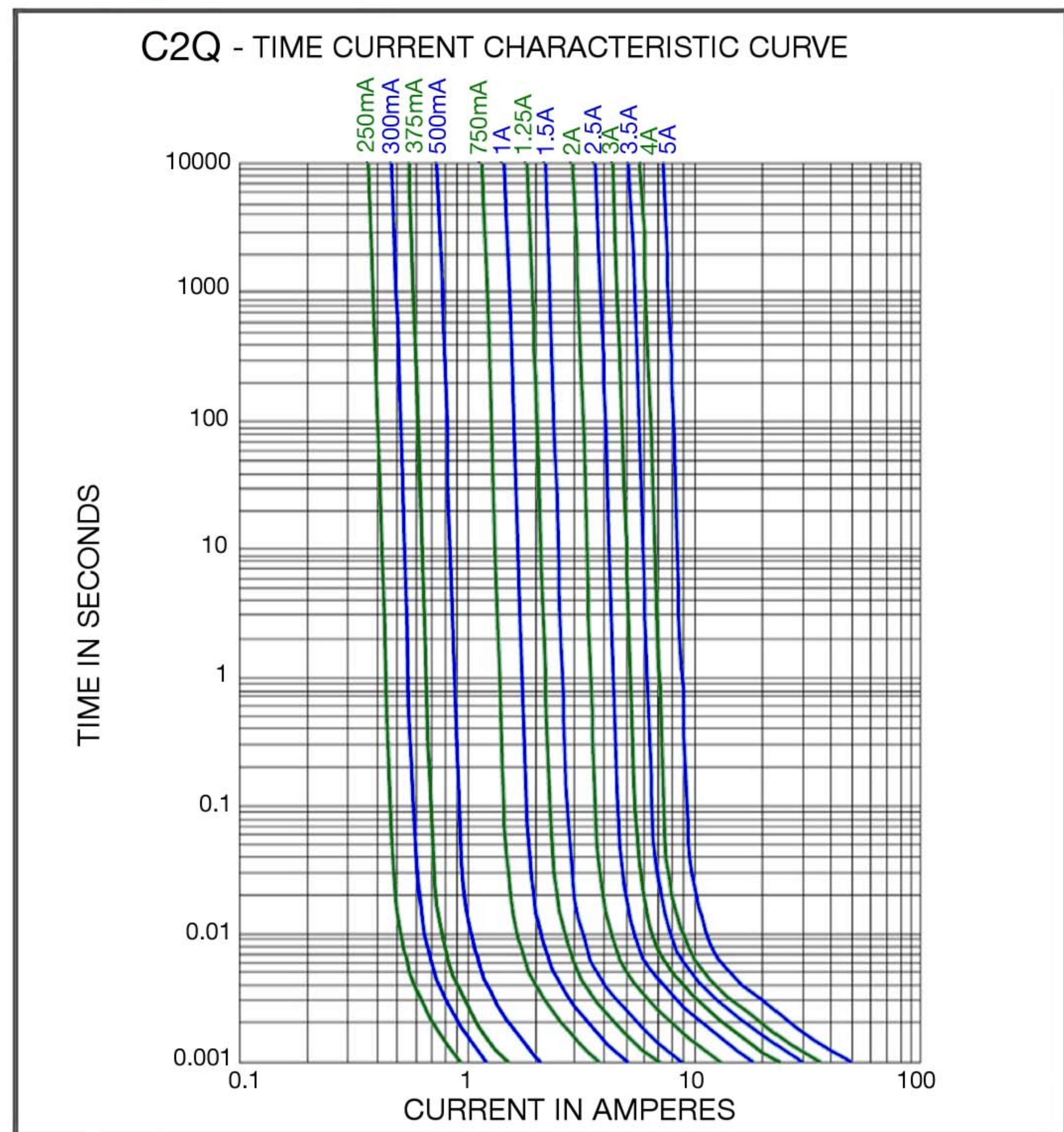
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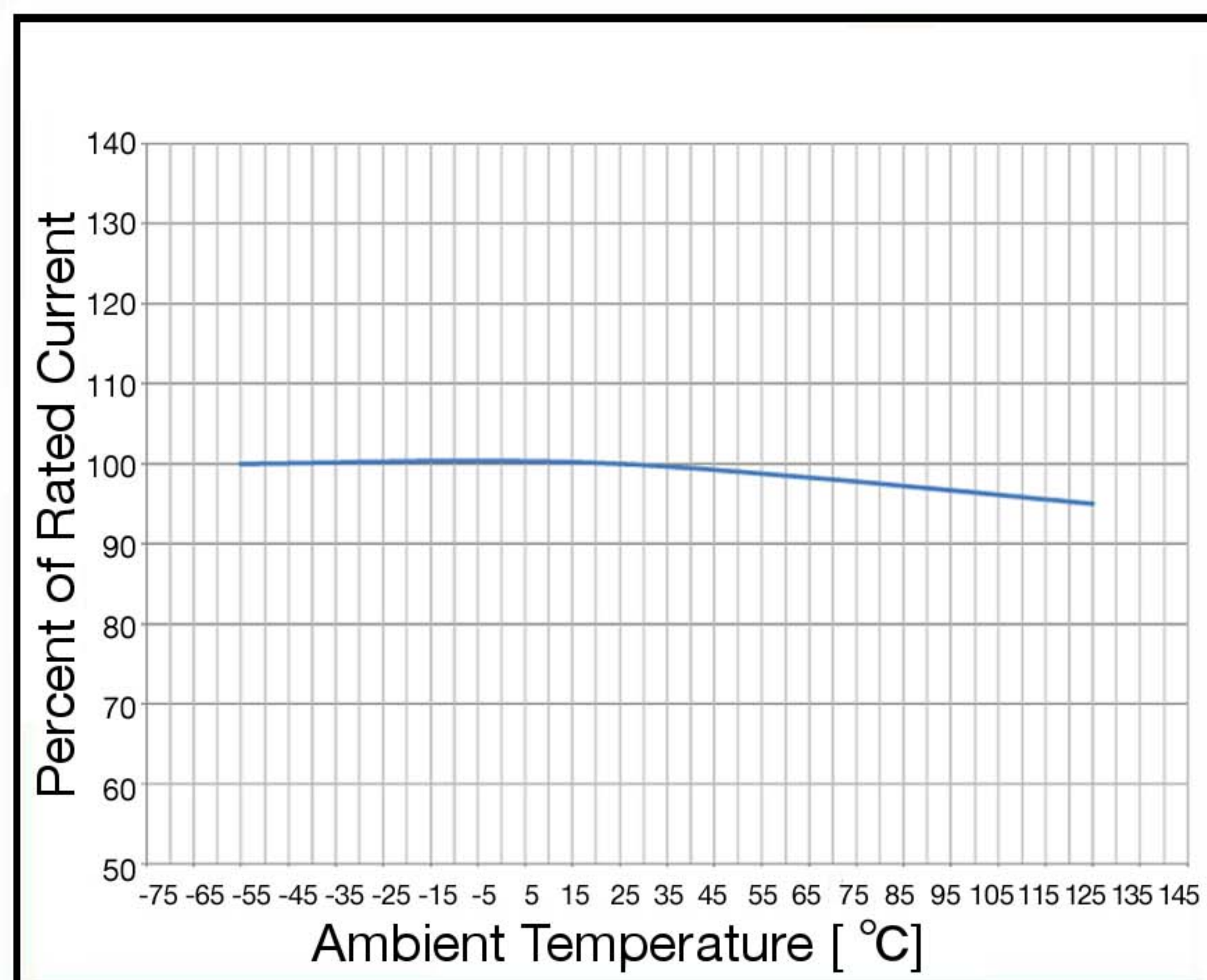
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Average Time Current Curve



Temperature Derating Curve



Electrical Specifications

| Catalog Number | Ampere Rating (A) | Nominal Cold Resistance (ohm) | Nominal Volt-drop @100% In (Volt) max. | Voltage and Interrupting Ratings | Nominal Melting I ² T <10 m Sec (A ² Sec) | Nominal Melting I ² T @10 In (A ² Sec) | Nominal Power Dissipation @100% In (W) | Agency Approvals |
|----------------|-------------------|-------------------------------|--|----------------------------------|---|--|--|---|
| | | | | | | | |  |
| C2Q 250 | 250mA | 0.77 | 0.243 | | 0.002 | 0.0001 | 0.06 | Y |
| C2Q 300 | 300mA | 0.54 | 0.217 | | 0.003 | 0.0001 | 0.07 | Y |
| C2Q 375 | 375mA | 0.42 | 0.196 | | 0.005 | 0.0002 | 0.07 | Y |
| C2Q 500 | 500mA | 0.28 | 0.171 | | 0.009 | 0.0004 | 0.07 | Y |

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[Bei Fuse Inc. Information](#)

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- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management