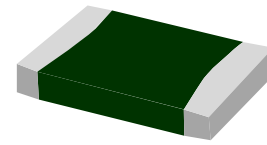


Fast Acting SMD Fuses 0603BC-G Series

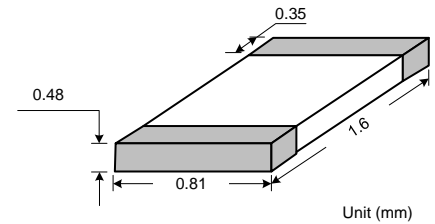
Descriptions

0603BC-G Series are the fuses set the industry standard for performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics during use and also makes our SMD fuses more heat and shock tolerant than typical subminiature fuses.

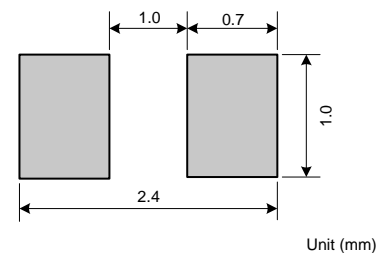


Top View (0603BC)

Product Dimensions



Recommended land pattern



| Electrical Characteristics | | |
|----------------------------|-------------|-------------|
| Rated Current | 1.0In | 2.5In |
| 250mA~1.5A | 4 hour min. | 60 sec max. |

Features

- AEC-Q200 Automotive Grade Certified
- Compatible with reflow and wave solder
- Excellent environmental integrity
- One time positive disconnect
- Lead Free and Halogen free material

Electrical information (Tamb=25°C)

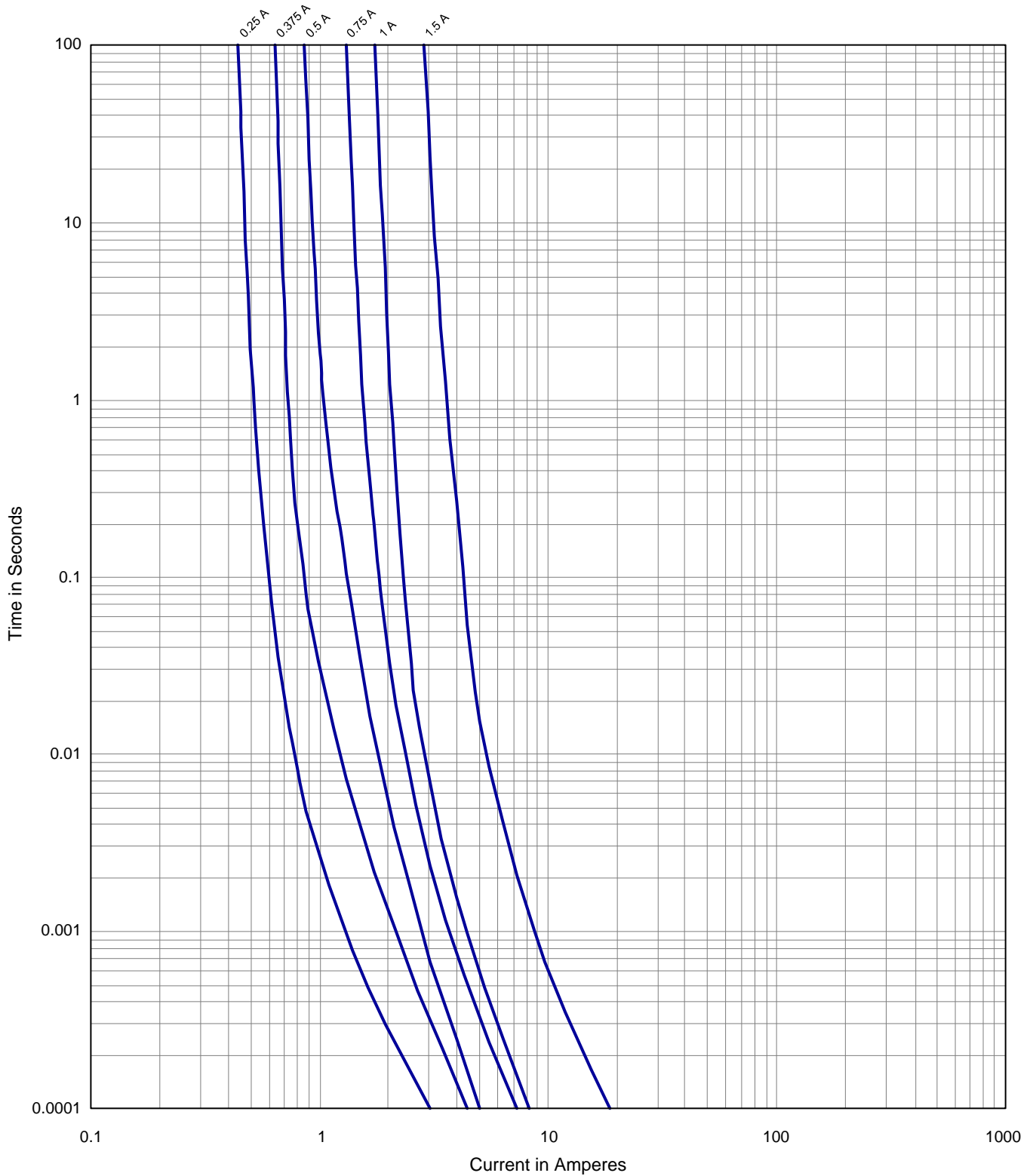
| Part number | Rated Voltage | Rated Current | Breaking Capacity * (A) | Typical Cold. Resistance * | Typical Voltage Drop | Typical Pre-arcing I ² t * |
|----------------|---------------|---------------|-------------------------|----------------------------|----------------------|---------------------------------------|
| | DC (V) | (A) | 63V DC | (mΩ) | (mV) | (A ² Sec) |
| 0603BC63-0025G | 63 | 0.25 | 50 | 3250 | 893 | 0.0004 |
| 0603BC63-0037G | 63 | 0.375 | 50 | 1310 | 587 | 0.0009 |
| 0603BC63-0050G | 63 | 0.5 | 50 | 1070 | 582 | 0.001 |
| 0603BC63-0075G | 63 | 0.75 | 50 | 470 | 427 | 0.009 |
| 0603BC63-0100G | 63 | 1 | 50 | 300 | 345 | 0.01 |
| 0603BC63-0150G | 63 | 1.5 | 50 | 150 | 270 | 0.04 |

* DC Interrupting Rating (measured at designated voltage, time constant of less than 50 microseconds, battery source)

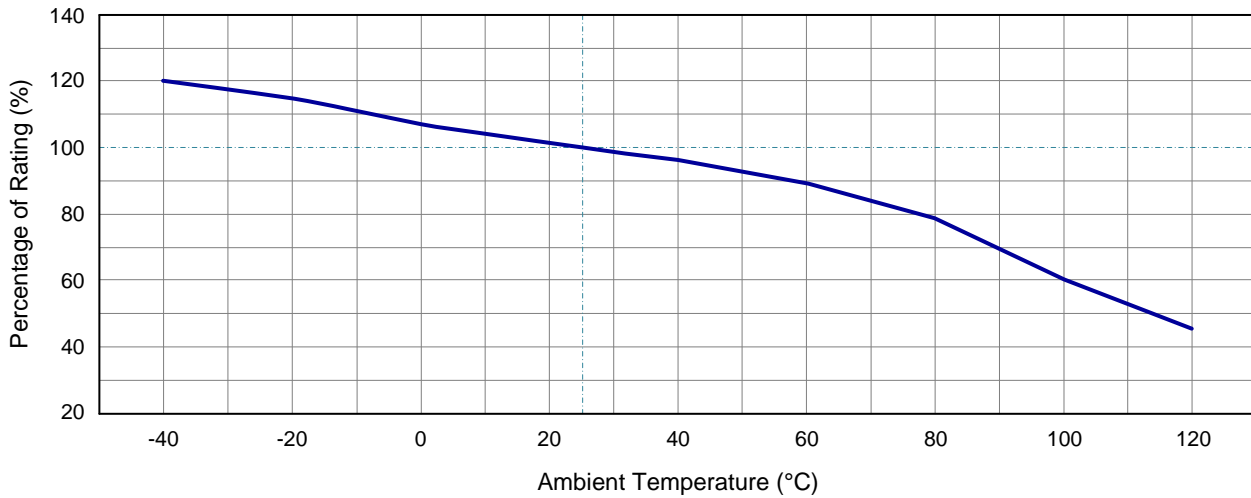
* DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 °C

* Typical Pre-arcing I²t are measured at 10In Current

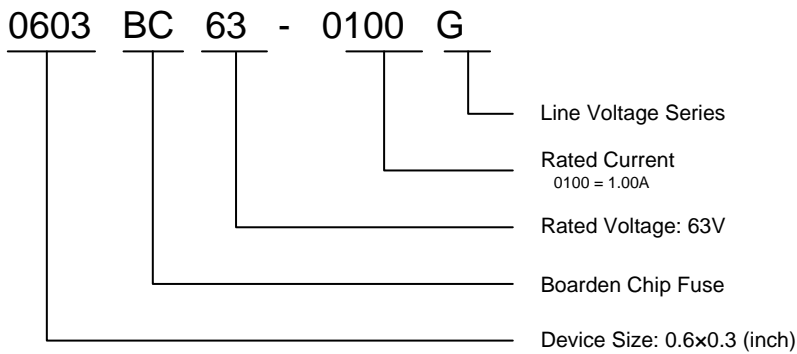
Time-Current Curves



Temperature Derating Curve



Part Numbering System

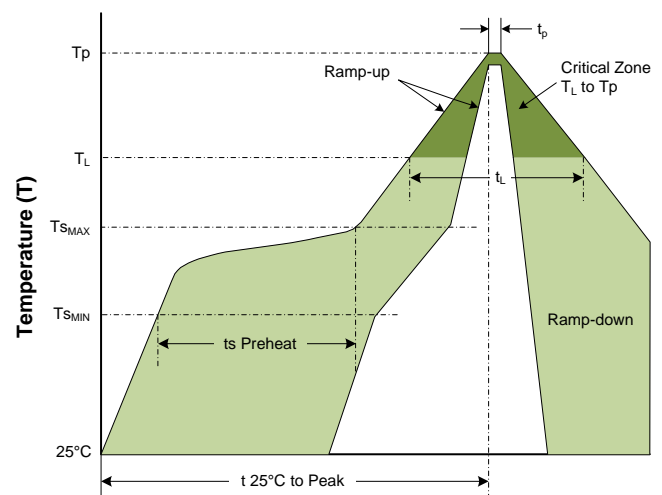


Order Information

| Device | Quantity | Reel Size |
|-----------------|----------|------------------|
| 0603BC-G Series | 5000 pcs | 7 Inch (178.0mm) |

Soldering Parameters

| Profile Feature | Lead-Free Assembly |
|---|------------------------------------|
| Average Ramp-up Rate (T _S MAX to T _p) Average Ramp-down Rate (T _p to T _L) | 3°C/second max. 6°C/second max. |
| Preheat • Temperature Min (T _S MIN) • Temperature Max (T _S MAX) • Time (t _s Preheat) | 150°C 200°C 60-180 seconds |
| Time maintained above: • Temperature (T _L) • Time (t _L) | 217°C 60-150 seconds |
| Peak/Classification Temperature • Temperature (T _p) | 260 ^{+0/-5} °C |
| Time within 5°C of actual Peak Time (t _p) | 20-40 seconds |
| Time 25°C to peak Temperature | 8 minutes max |
| Do not exceed | 280 °C |



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