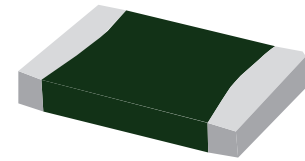


Fast Acting SMD Fuses 1206BC Series

Descriptions

Chip Fuse devices are 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.

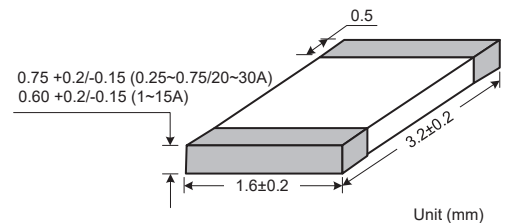
1206BC SMD fuses for the small size and good electrical performance, reliability and quality.



Top View (1206BC)

| Electrical Characteristics | | | |
|----------------------------|-------------|------------|------------|
| Rated Current | 1.0In | 2.5In | 3.5In |
| 250mA~5A | 4 hour min. | 5 sec max. | - |
| 6A~30A | | - | 5 sec max. |

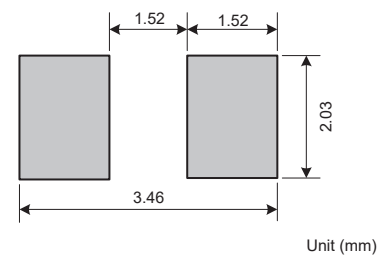
Product Dimensions



Features

- AEC-Q200 Automotive Grade Certified
- Rapid interruption of excessive current
- Compatible with reflow and wave solder
- Ceramic and glass construction
- One time positive disconnect
- Lead Free and Halogen free material

Recommended land pattern



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) | 72V DC | (mΩ) | (mV) | (A ² Sec) |
| 1206BC72-0025 | 72 | 0.25 | 50 | 3608 | 1407 | 0.0004 |
| 1206BC72-0037 | 72 | 0.375 | 50 | 1882 | 718 | 0.0008 |
| 1206BC72-0050 | 72 | 0.50 | 50 | 1028 | 650 | 0.0022 |
| 1206BC72-0075 | 72 | 0.75 | 50 | 601 | 616 | 0.0057 |
| 1206BC72-0100 | 72 | 1.00 | 50 | 490 | 510 | 0.10 |
| 1206BC72-0150 | 72 | 1.50 | 50 | 240 | 367 | 0.15 |
| 1206BC72-0200 | 72 | 2.00 | 50 | 144 | 316 | 0.41 |
| 1206BC72-0250 | 72 | 2.50 | 50 | 83 | 240 | 0.65 |
| 1206BC72-0300 | 72 | 3.00 | 50 | 53 | 187 | 1.39 |
| 1206BC72-0350 | 72 | 3.50 | 50 | 40 | 180 | 1.68 |
| 1206BC72-0400 | 72 | 4.00 | 50 | 35 | 173 | 1.73 |

| 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) |
| 1206BC63-0025 | 63 | 0.25 | 50 | 3608 | 1407 | 0.0004 |
| 1206BC63-0037 | 63 | 0.375 | 50 | 1882 | 718 | 0.0008 |
| 1206BC63-0050 | 63 | 0.50 | 50 | 1028 | 650 | 0.0022 |
| 1206BC63-0075 | 63 | 0.75 | 50 | 601 | 616 | 0.0057 |
| 1206BC63-0100 | 63 | 1.00 | 50 | 490 | 510 | 0.10 |
| 1206BC63-0150 | 63 | 1.50 | 50 | 240 | 367 | 0.15 |
| 1206BC63-0200 | 63 | 2.00 | 50 | 144 | 316 | 0.41 |
| 1206BC63-0250 | 63 | 2.50 | 50 | 83 | 240 | 0.65 |
| 1206BC63-0300 | 63 | 3.00 | 50 | 53 | 187 | 1.39 |
| 1206BC63-0350 | 63 | 3.50 | 50 | 40 | 180 | 1.68 |
| 1206BC63-0400 | 63 | 4.00 | 50 | 35 | 173 | 1.73 |

| Part number | Rated Voltage | Rated Current | Breaking Capacity * (A) | Typical Cold. Resistance * | Typical Voltage Drop | Typical Pre-arcing I ² t * |
|---------------|---------------|---------------|-------------------------|----------------------------|----------------------|---------------------------------------|
| | DC (V) | (A) | 32V DC | (mΩ) | (mV) | (A ² Sec) |
| 1206BC32-0025 | 32 | 0.25 | 50 | 3608 | 1407 | 0.0004 |
| 1206BC32-0037 | 32 | 0.375 | 50 | 1882 | 718 | 0.0008 |
| 1206BC32-0050 | 32 | 0.50 | 50 | 1028 | 650 | 0.0022 |
| 1206BC32-0075 | 32 | 0.75 | 50 | 601 | 616 | 0.0057 |
| 1206BC32-0100 | 32 | 1.00 | 50 | 490 | 510 | 0.10 |
| 1206BC32-0150 | 32 | 1.50 | 50 | 240 | 367 | 0.15 |
| 1206BC32-0200 | 32 | 2.00 | 50 | 144 | 316 | 0.41 |
| 1206BC32-0250 | 32 | 2.50 | 50 | 83 | 240 | 0.65 |
| 1206BC32-0300 | 32 | 3.00 | 50 | 53 | 187 | 1.39 |
| 1206BC32-0350 | 32 | 3.50 | 50 | 40 | 180 | 1.68 |
| 1206BC32-0400 | 32 | 4.00 | 50 | 35 | 173 | 1.73 |
| 1206BC32-0450 | 32 | 4.50 | 50 | 27 | 164 | 2.62 |
| 1206BC32-0500 | 32 | 5.00 | 50 | 22 | 141 | 2.89 |
| 1206BC32-0700 | 32 | 7.00 | 50 | 12 | 140 | 5.68 |
| 1206BC32-0800 | 32 | 8.00 | 150 | 8.5 | 110 | 8 |
| 1206BC32-1000 | 32 | 10.0 | 150 | 7 | 100 | 9.5 |
| 1206BC32-1200 | 32 | 12.0 | 150 | 5 | 85 | 11.5 |
| 1206BC32-1500 | 32 | 15.0 | 150 | 3.5 | 78 | 16.5 |
| 1206BC32-2000 | 32 | 20.0 | 150 | 1.6 | 60 | 47.17 |
| 1206BC32-2500 | 32 | 25.0 | 150 | 1.4 | 57 | 32 |
| 1206BC32-3000 | 32 | 30.0 | 150 | 1 | 68 | 43 |

| Part number | Rated Voltage | Rated Current | Breaking Capacity * (A) | Typical Cold. Resistance * | Typical Voltage Drop | Typical Pre-arching I ² t * |
|---------------|---------------|---------------|-------------------------|----------------------------|----------------------|--|
| | DC (V) | (A) | 24V DC | (mΩ) | (mV) | (A ² Sec) |
| 1206BC24-0025 | 24 | 0.25 | 300 | 3608 | 1407 | 0.0004 |
| 1206BC24-0037 | 24 | 0.375 | 300 | 1882 | 718 | 0.0008 |
| 1206BC24-0050 | 24 | 0.50 | 300 | 1028 | 650 | 0.0022 |
| 1206BC24-0075 | 24 | 0.75 | 300 | 601 | 616 | 0.0057 |
| 1206BC24-0100 | 24 | 1.00 | 300 | 490 | 510 | 0.10 |
| 1206BC24-0150 | 24 | 1.50 | 300 | 240 | 367 | 0.15 |
| 1206BC24-0200 | 24 | 2.00 | 300 | 144 | 316 | 0.41 |
| 1206BC24-0250 | 24 | 2.50 | 300 | 83 | 240 | 0.65 |
| 1206BC24-0300 | 24 | 3.00 | 300 | 53 | 187 | 1.39 |
| 1206BC24-0350 | 24 | 3.50 | 300 | 40 | 180 | 1.68 |
| 1206BC24-0400 | 24 | 4.00 | 300 | 35 | 173 | 1.73 |
| 1206BC24-0450 | 24 | 4.50 | 300 | 27 | 164 | 2.62 |
| 1206BC24-0500 | 24 | 5.00 | 300 | 22 | 141 | 2.89 |
| 1206BC24-0700 | 24 | 7.00 | 300 | 12 | 140 | 5.68 |
| 1206BC24-0800 | 24 | 8.00 | 300 | 8.5 | 110 | 8 |
| 1206BC24-1000 | 24 | 10.0 | 300 | 7 | 100 | 9.5 |
| 1206BC24-1200 | 24 | 12.0 | 300 | 5 | 85 | 11.5 |
| 1206BC24-1500 | 24 | 15.0 | 300 | 3.5 | 78 | 16.5 |
| 1206BC24-2000 | 24 | 20.0 | 300 | 1.6 | 60 | 47.17 |
| 1206BC24-2500 | 24 | 25.0 | 300 | 1.4 | 57 | 32 |
| 1206BC24-3000 | 24 | 30.0 | 300 | 1 | 68 | 43 |

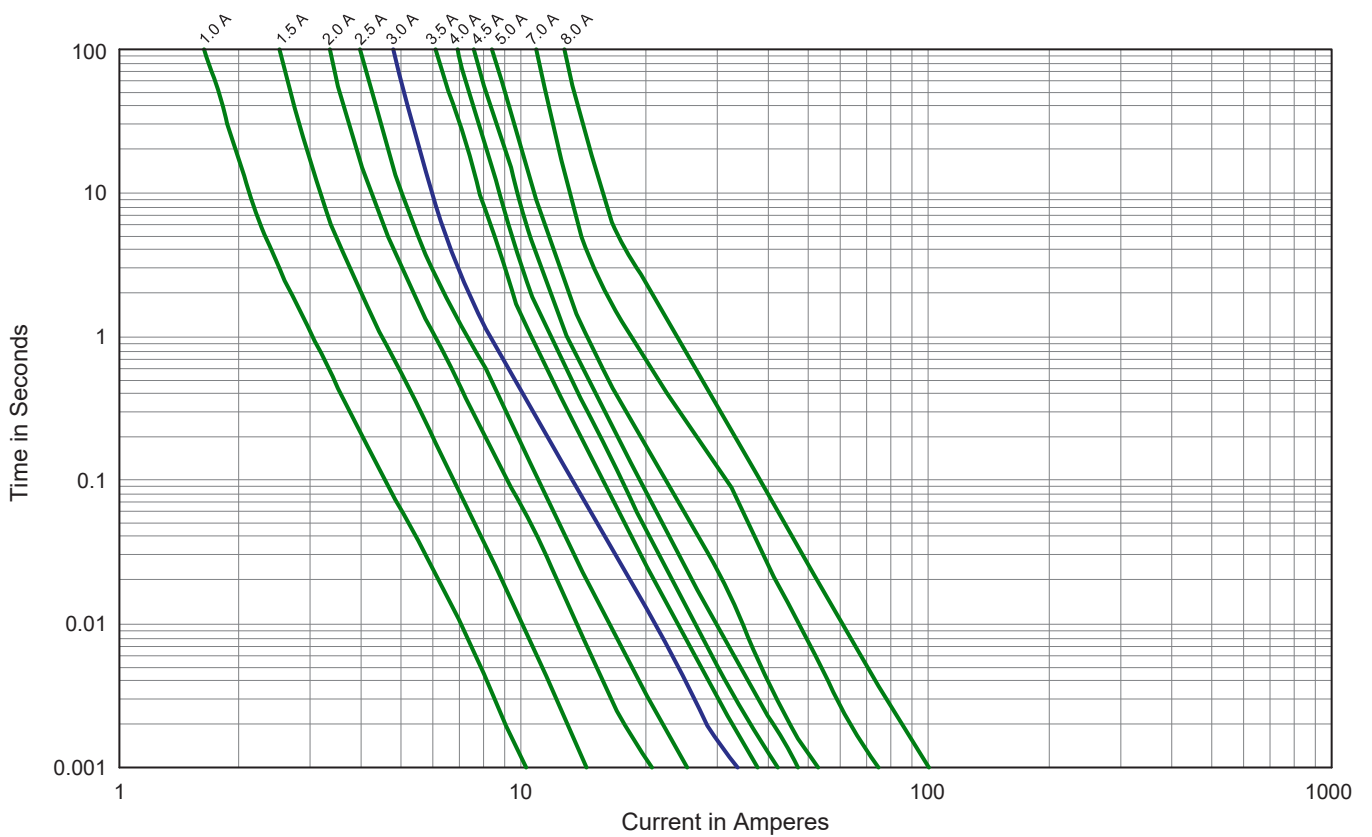
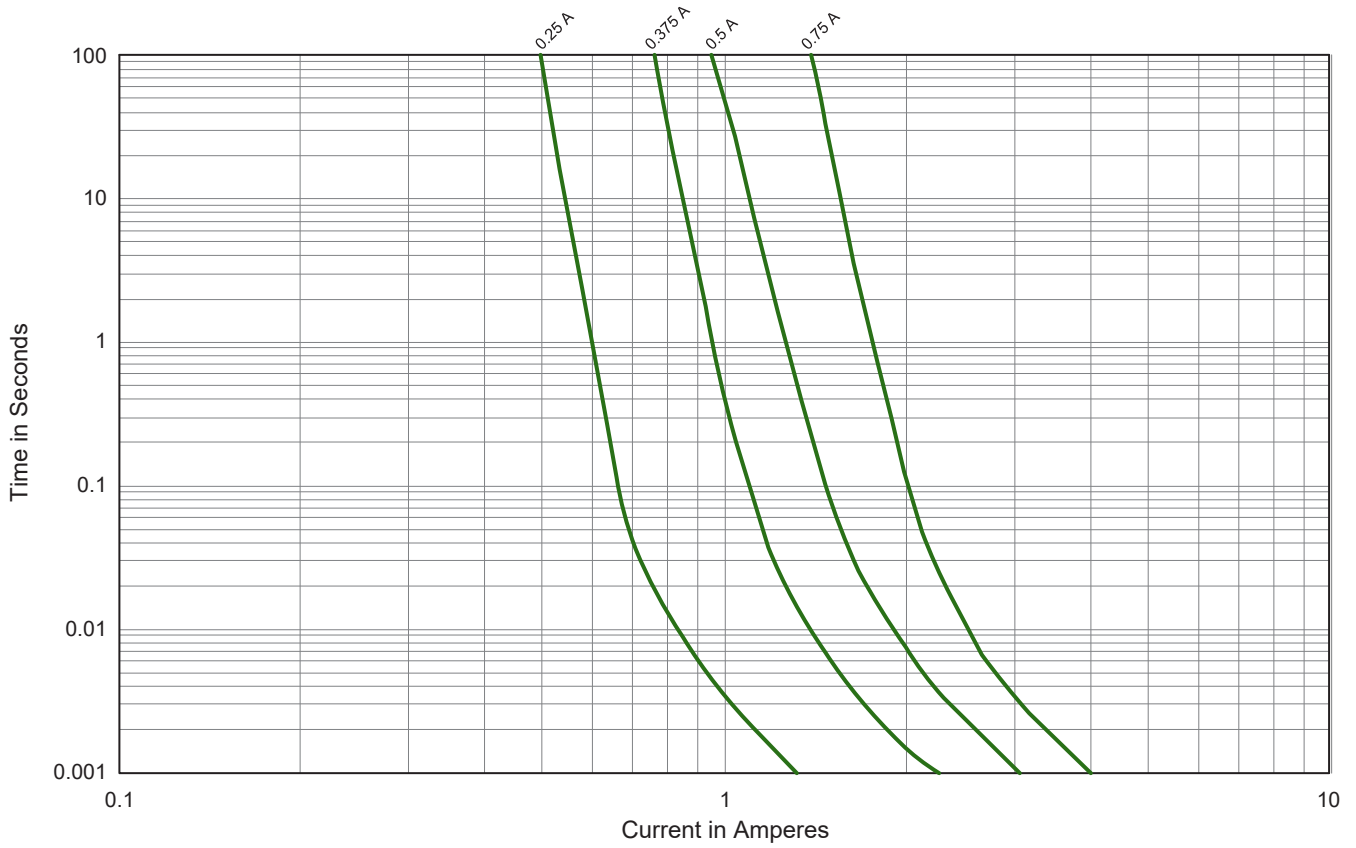
* DC Interrupting Rating (measured at designated voltage, time constant of less than 50 microseconds, battery source)

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

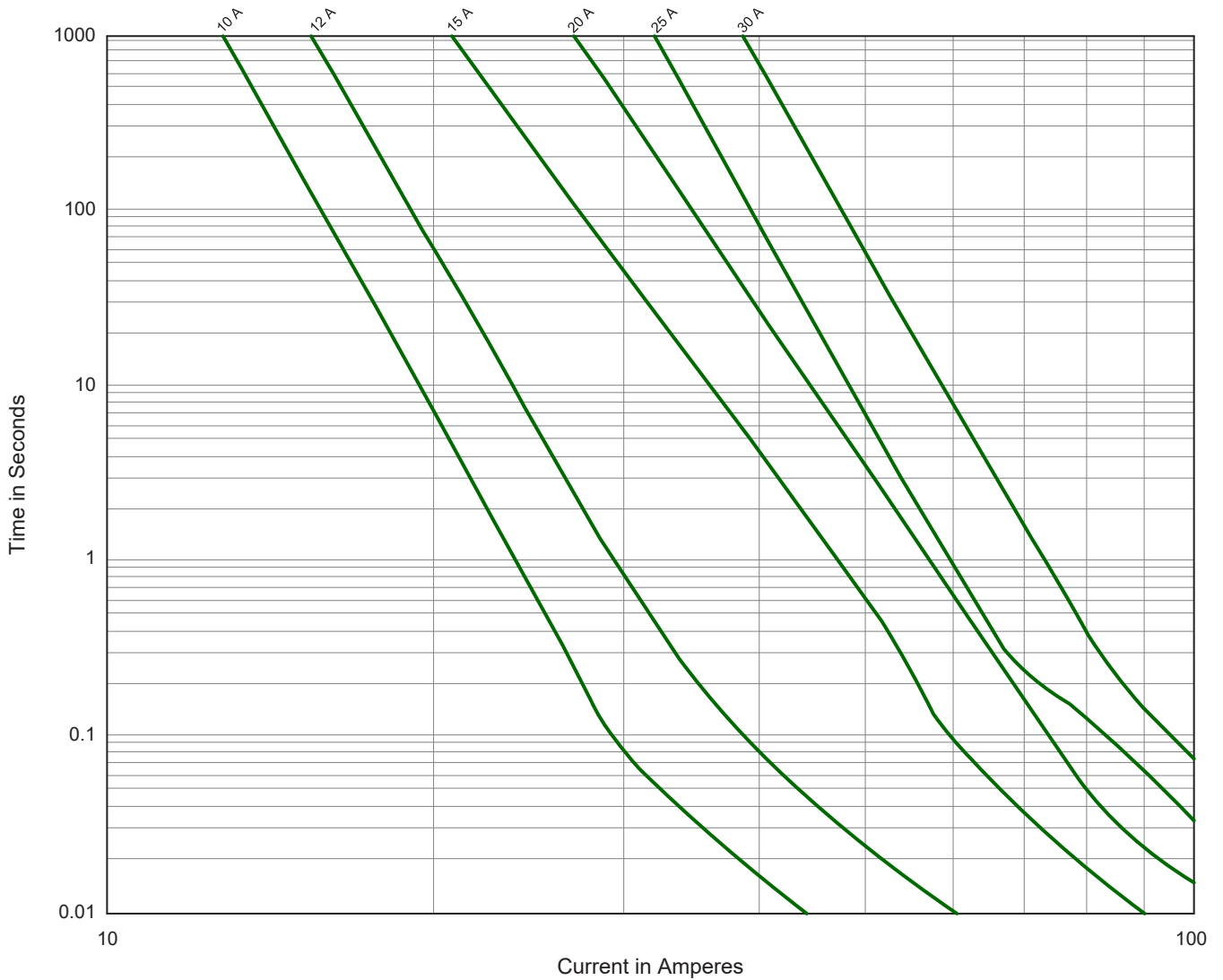
* Typical Pre-arching I²t are measured at 10In Current

* UL approval for 8-30A @ 32Vdc is pending

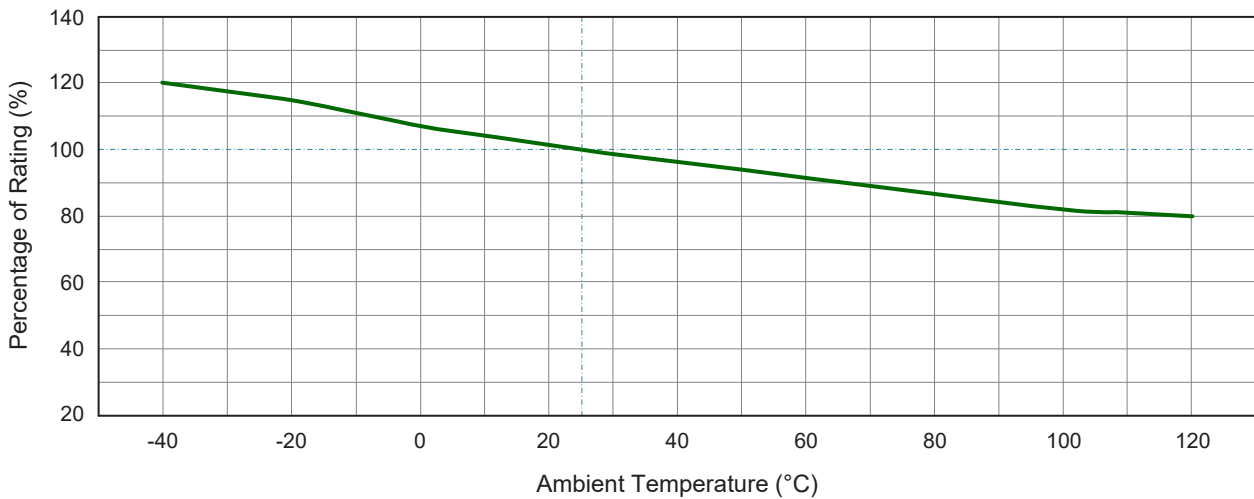
Time-Current Curves

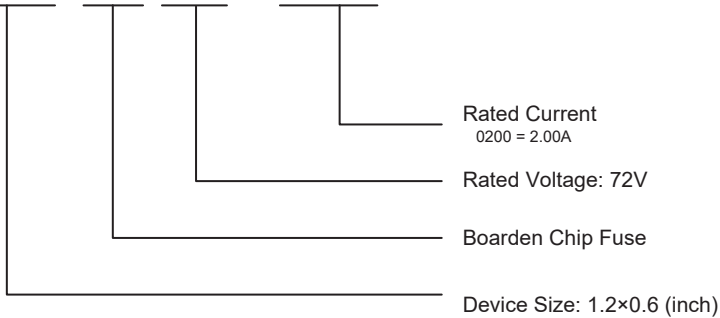


Time-Current Curves



Temperature Derating Curve



Part Numbering System
1206 BC 72 - 0200

Order Information

| Device | Quantity | Reel Size |
|---------------|----------|------------------|
| 1206BC Series | 3000 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 |

