

0603 Fast Acting SMD Fuses

06 100 Series



Description

06 100 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.



Electrical Characteristics

| Rated Current | 1.0In | 2.0In |
|---------------|----------------|----------------|
| 250mA~8A | 4 hour minimum | 60 sec maximum |

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

Specifications

| Specification | | | | | | | |
|---------------|---------------|-------------------|------------------------------------|--|---------------------------|---|------------|
| Part No. | Rated Voltage | Rated Current (A) | Breaking Capacity (A) ¹ | Typical Cold Resistance (mOhms) ² | Typical Voltage Drop (mV) | Typical Pre-Arcing I ² t (A ² Sec) ³ | Alpha Mark |
| | DC | | | | | | |
| 06 100.0.25 | 32V | 0.250 | 50A | 3250 | 893 | 0.00042 | D |
| 06 100.0.375 | | 0.375 | 50A | 1310 | 587 | 0.00093 | E |
| 06 100.0.5 | | 0.500 | 50A | 1070 | 582 | 0.001 | F |
| 06 100.0.75 | | 0.750 | 50A | 470 | 427 | 0.009 | G |
| 06 100.1 | | 1 | 50A | 300 | 345 | 0.011 | B |
| 06 100.1.5 | | 1.5 | 50A | 150 | 270 | 0.045 | H |
| 06 100.2 | | 2 | 50A | 72 | 160 | 0.115 | K |
| 06 100.2.5 | | 2.5 | 50A | 52 | 145 | 0.14 | L |
| 06 100.3 | | 3 | 50A | 35 | 130 | 0.21 | O |
| 06 100.3.5 | | 3.5 | 50A | 23.8 | 130 | 0.5 | R |
| 06 100.4 | | 4 | 50A | 21 | 120 | 0.56 | S |
| 06 100.5 | | 5 | 50A | 14 | 110 | 1.2 | T |
| 06 100.6 | | 6 | 50A | 8.5 | 110 | 1.7 | V |
| 06 100.7 | | 7 | 50A | 7.3 | 80 | 2.3 | X |
| 06 100.8 | | 8 | 50A | 5.1 | 75 | 3.0 | Z |

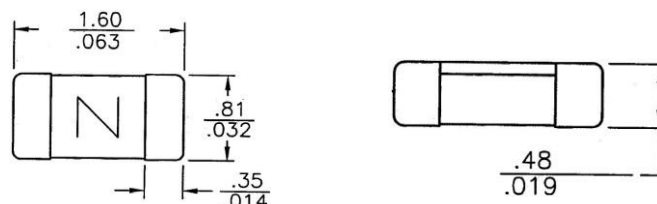
* DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

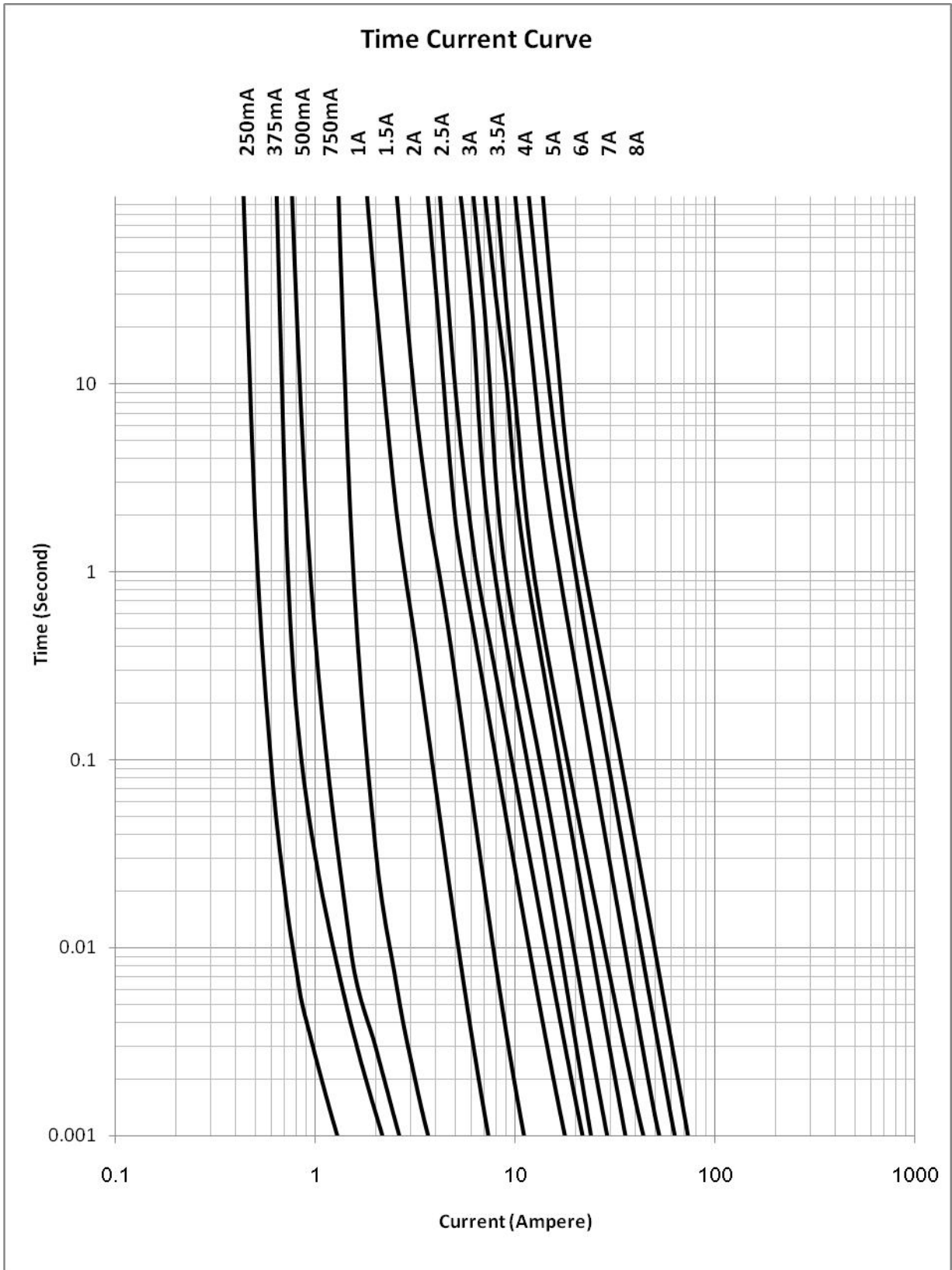
* DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25degrees

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

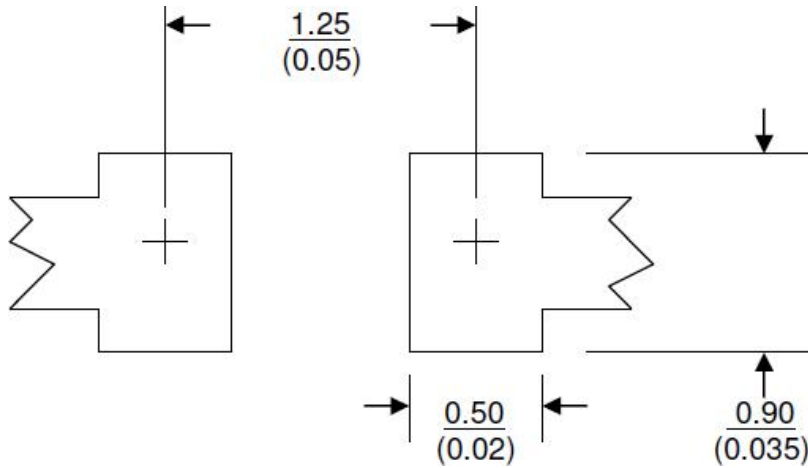
** For 1A-5A, the color of glass coating is Green; for others, it's Blue.

Dimension Drawing not to scale (Unit: mm/inch)





Recommended land pattern

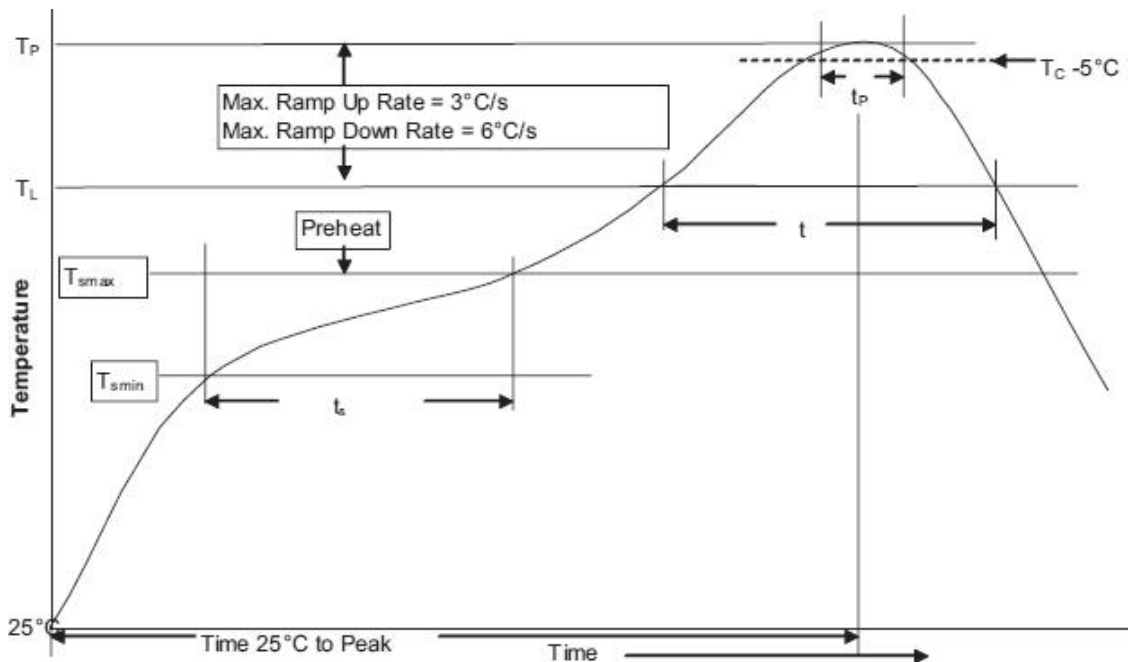


Unit: mm/inches

Soldering method

- Wave solder
 - Reservoir temperature: 260°C
 - Time in reservoir: 10 seconds maximum
- Infrared reflow
 - Temperature: 260°C
 - Time: 30 seconds maximum

Solder reflow profile



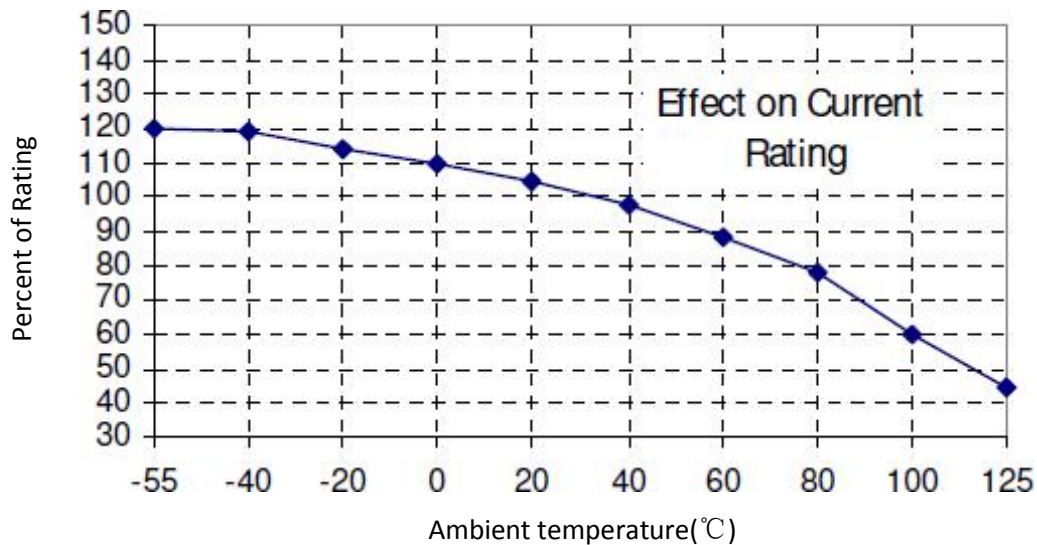
| Profile Feature | | Lead(Pb) free solder |
|------------------|-----------------------------------|----------------------|
| Preheat and soak | • Temperature min. (T_{smin}) | 150°C |
| | • Temperature max. (T_{smax}) | 200°C |

| | |
|---|---------------------------|
| • Time (T_{smin} to T_{smax}) (ts) | 60 - 120 Seconds |
| Average ramp up rate T_{smax} to T_p | 3°C / Second Max. |
| Liquidous temperature (T_L) Time at liquidous (t_L) | 217°C 60 - 150 Seconds |
| Peak package body temperature (T_P) | 260°C |
| Time (t_P) within 5°C of the specified classification temperature (T_C) | 30 Seconds |
| Average ramp-down rate (T_P to T_{smax}) | 6°C / Second Max. |
| Time (25°C to Peak Temperature) | 8 Minutes Max. |

Temperature Derating Curve

Normal ambient temperature: 23+/-3°C

Operating temperature: -55 ~ 125°C, with proper correction factor applied



Package

5000 fuses on 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481.

--- End of Document ---

Website: <http://www.jksemi.com>

For additional information, please contact your local Sales Representative.

©Copyright 2021, jksemi

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Surface Mount Fuses](#) category:

Click to view products by [Jinkaisheng](#) manufacturer:

Other Similar products are found below :

[FHC20402ADTP](#) [NFVC6125S0R50TRF](#) [SFT-125MA](#) [TF16SN2.00TTD](#) [7010.9810.57](#) [FCC16501ABTP](#) [FCC16102ABTP](#) [FHC16322ADTP](#)
[0308.250UR](#) [0308.375UR](#) [0308.500UR](#) [0308.750UR](#) [0308001.UR](#) [030801.5UR](#) [FCC16202ABTP](#) [F0603G0R03FNTR](#) [SKY87604-12](#)
[SKY87604-11](#) [SKY87604-13](#) [3404.0110.22](#) [7010.9962.63](#) [R451003.L](#) [R451.500L](#) [R451001.L](#) [3-103-119](#) [3-103-123](#) [122 30A 36V](#) [SGB401](#)
[SGB075](#) [S1206-FC-1.0A](#) [S1206-S-2.0A](#) [CFS06V3TR63](#) [F06F3](#) [F12F7](#) [F12T20](#) [F06F0.25](#) [F06T0.5](#) [F12F2.5](#) [F12F0.25](#) [F06F1](#) [F06F8](#)
[F06T1](#) [F12F10](#) [F06F2](#) [F06F0.75](#) [F06F6](#) [F06F1.5](#) [F06T2](#) [F12F3.5](#) [F12T5](#)