

Time Delay | 0.126x0.064 inch Thick Film Chip Fuses

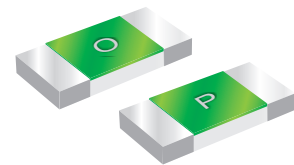
1206TD Series

1206TD 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.



Features

- Compatible with reflow and wave solder
- Ceramic and glass construction
- Halogen free, lead free and RoHS compliant
- Excellent environmental integrity
- One time positive disconnect
- AEC-Q200 Automotive Grade Certified



Applications

- Flat panel displays and televisions
- Automotive infotainment and ECU
- Computer servers
- Portable electronics
- Mobile device chargers
- Power Battery Packs

Electrical Characteristics

| Amp Rating | % of Amp Rating | Opening Time |
|------------|-----------------|----------------|
| 0.75~30A | 100% | 4 Hours Min. |
| 0.75~3A | 200% | 1sec~60sec |
| 0.75~5A | 250% | 5 Seconds Max. |
| 0.75~5A | 300% | 0.1sec~3sec |
| 6~30A | 350% | 5 Seconds Max. |
| 0.75~30A | 1000% | 0.2ms~20ms |

Specification

| Part Number | Ampere Rating (A) | Voltage Rating | Interrupting Rating | Typical Cold Resistance (Ohms) | Typical Melting I ² t (A ² Sec) | Typical Voltage Drop (V) | Marking Code |
|-------------|-------------------|---|---------------------|--------------------------------|---|--------------------------|--------------|
| 1206TD-R750 | 0.75 | 72Vdc @ 50A 32Vdc @ 150A 24Vdc @ 300A | | 0.83 | 0.02 | 1.11 | 0.75 |
| 1206TD-1A | 1.00 | | | 0.46 | 0.13 | 0.5 | H |
| 1206TD-1.5A | 1.50 | | | 0.25 | 0.18 | 0.356 | K |
| 1206TD-2A | 2.00 | | | 0.13 | 0.43 | 0.309 | N |
| 1206TD-2.5A | 2.50 | | | 0.077 | 0.69 | 0.24 | O |
| 1206TD-3A | 3.00 | | | 0.048 | 1.7 | 0.189 | P |
| 1206TD-3.5A | 3.50 | | | 0.036 | 2.3 | 0.187 | R |
| 1206TD-4A | 4.00 | | | 0.033 | 3.1 | 0.175 | S |
| 1206TD-4.5A | 4.50 | | | 0.022 | 3.9 | 0.17 | X |
| 1206TD-5A | 5.00 | | | 0.019 | 5 | 0.142 | T |
| 1206TD-6A | 6.00 | 45Vdc @ 50A 32Vdc @ 150A 24Vdc @ 300A | | 0.015 | 12.2 | 0.138 | F |
| 1206TD-7A | 7.00 | | | 0.010 | 15 | 0.12 | 7 |
| 1206TD-8A | 8.00 | | | 0.007 | 17 | 0.097 | M |
| 1206TD-10A | 10.0 | | | 0.0065 | 25 | 0.099 | U |
| 1206TD-12A | 12.0 | | | 0.005 | 13 | 0.087 | 12 |
| 1206TD-15A | 15.0 | | | 0.0033 | 41 | 0.075 | 15 |
| 1206TD-20A | 20.0 | | | 0.0027 | 52 | 0.089 | Q |
| 1206TD-25A | 25.0 | | | 0.0022 | 60 | 0.091 | L |
| 1206TD-30A | 30.0 | | | 0.0019 | 100 | 0.090 | Z |

- DC Interrupting Rating - Measured at designated voltage, time constant < 50 microseconds.
- DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C.
- Typical Melting I²t measured at 10In Current.
- Typical Voltage Drop measured at rated current after temperature has stabilized.

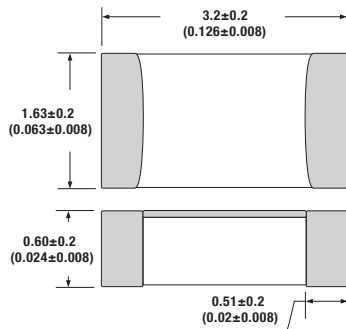
Time Delay | 0.126x0.064 inch

Thick Film Chip Fuses

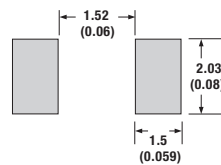
1206TD Series

Dimension

Unit: mm/inch



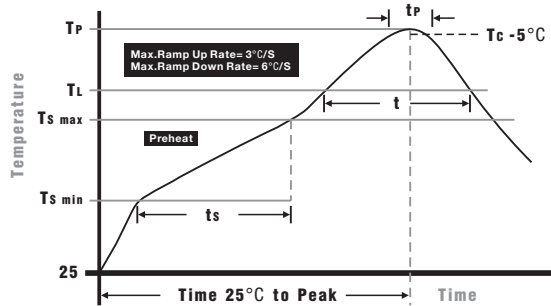
Pad layout



Packaging

- Quantity: 3,000pcs
- 8mm wide tape on 178mm(7 inch) diameter reel -specification EIA Standard 481.

Soldering Parameters

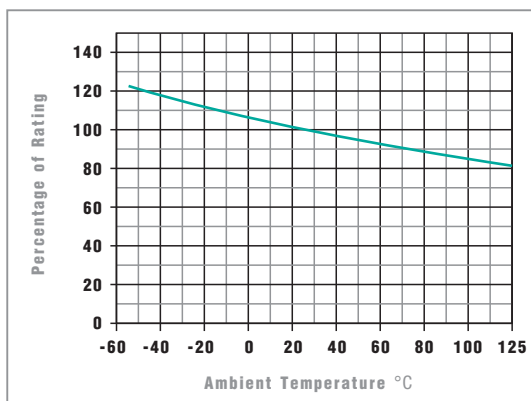


Wave Soldering: 260°C, 10 seconds max.
Infrared Reflow: 260°C, 30 seconds max.

IR Reflow Profile

| | |
|---|------------------|
| Preheat Heat | |
| Temperature min (T _{min}) | 150°C |
| Temperature max (T _{max}) | 200°C |
| Time (T _{min} to T _{max}) (ts) | 60 - 120 seconds |
| Average ramp-up rate (T _{max} to T _p) | 3°C/second max. |
| Liquidous temperature (T_l) | |
| Time at liquidous (t _l) | 60 - 150 seconds |
| Peak temperature (T_p) | |
| Peak temperature (T _p) | 260+0/-5°C |
| Time within 5°C of actual peak Temperature (t_p) | |
| Time within 5°C of actual peak Temperature (t _p) | 10 - 30 seconds |
| Average ramp-down rate (T_p to T_{max}) | |
| Average ramp-down rate (T _p to T _{max}) | 6°C/second max. |
| Time 25 °C to peak temperature | |
| Time 25 °C to peak temperature | 8 minutes max. |

Temperature Derating Curve



- Normal Operating Temperature: 23°C ± 2
- Operating Temperature: -55 to 125°C
- The fuse rating is determined by the equation below:

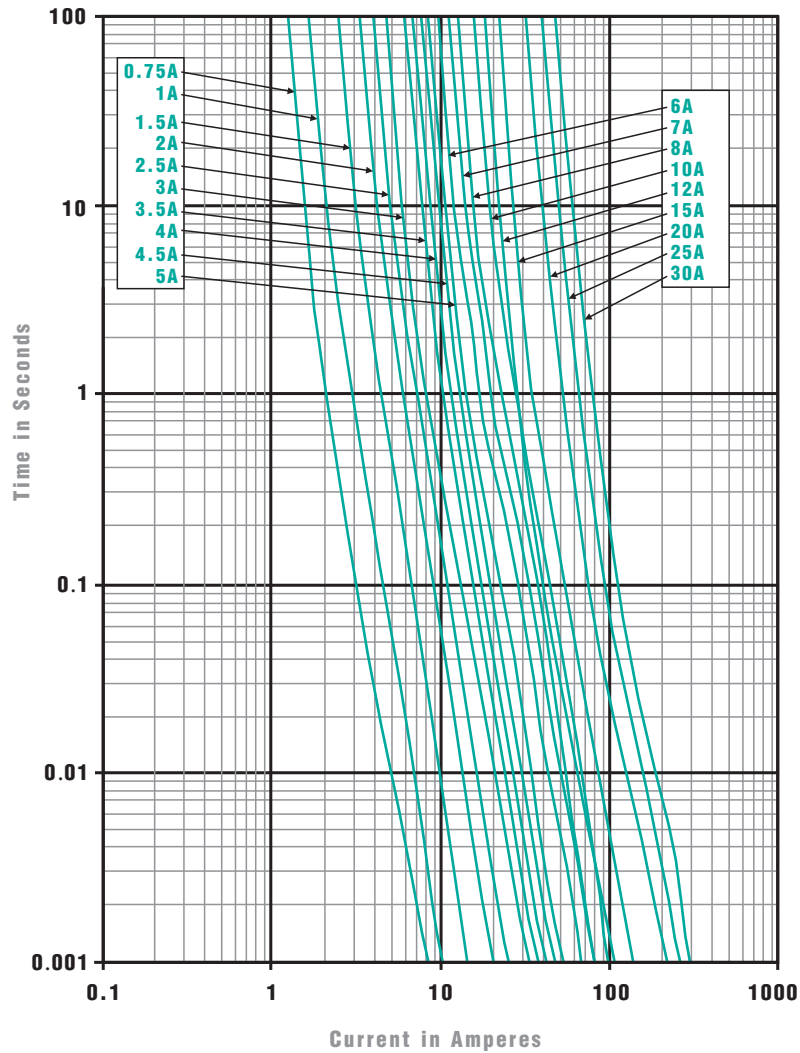
$$I_n = \frac{I_{\text{input max.}}}{0.70 \times K_{\text{temp}}}$$

Time Delay | 0.126x0.064 inch

Thick Film Chip Fuses

1206TD Series

Average Time Current Curves



© 2017 PROSEMI Inc. All Rights Reserved. Specifications and features are subject to change without notice. www.prosemitech.com

The PROSEMI logo, and all other PROSEMI trademarks are the property of PROSEMI Inc. All other trademarks are the property of their respective owners.

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 [PROSEMI](#) manufacturer:

Other Similar products are found below :

[FHC20402ADTP](#) [NFVC6125S0R50TRF](#) [SFT-125MA](#) [TF16SN2.00TTD](#) [FCC16501ABTP](#) [FCC16102ABTP](#) [FHC16322ADTP](#) [0308.250UR](#)
[0308.375UR](#) [0308.500UR](#) [0308.750UR](#) [0308001.UR](#) [030801.5UR](#) [F0603G0R03FNTR](#) [SKY87604-12](#) [SKY87604-11](#) [SKY87604-13](#)
[R451003.L](#) [R451.500L](#) [R451001.L](#) [3-103-119](#) [3-103-123](#) [SGB401](#) [SGB075](#) [0154002.DRL](#) [0154008.DRL](#) [0154.500DRL](#) [189140.1,25](#)
[189140.0,8](#) [189140.0,4](#) [189140.0,63](#) [189140.0,25](#) [0402FA-R200](#) [0402SFF150F/24-2](#) [0435.250KRHFS](#) [0468003.WR](#) [0494001.NRHF](#)
[0494002.NRHF](#) [0494003.NRHF](#) [049402.5NRHF](#) [049403.5NRHF](#) [0494.250NRHF](#) [0494.375NRHF](#) [0494.500NRHF](#) [CF06V3T1R60](#)
[CF06V3T2R50](#) [06H1300D](#) [JFC0603-1200FS](#) [CP06V3T2R0](#) [06F-0200L1](#)