# SMD FUSE

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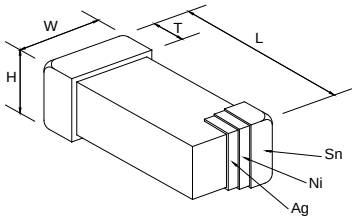
**0603WCS500A032V**

## Features

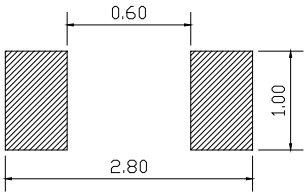
- RoHS Passed
- SMD Electronic devices
- High structural intensity
- Compatible with both wave and reflow soldering processes
- Good corrosion resistance
- Operating temperature: -55°C to +125°C (with de-rating)

## Product Dimensions and Recommended Land Pattern(mm)

| Part number | L | W | H | T |
|---|---|---|---|---|
| **0603WCS500A032V** | 1.60±0.15 | 0.80±0.15 | 0.95max | 0.10min |




**Product Dimensions**




**Recommended soldering dimension**

## Specification

| Part number | Current Rating | Voltage Rating | Cold DCR[1] | Interrupting Rating | Nominal $I^2t$[(2)] |
|---|---|---|---|---|---|
| | A | VDC | mΩ | A | $A^2s$ |
| 0603WCS500A032V | 5 | 32 | 11 | 50 | 2.9 |

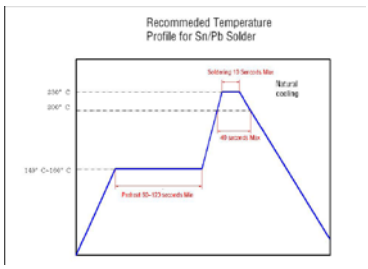
**1. Measured at ⩽ 10% of rated current and 25ºC ambient**

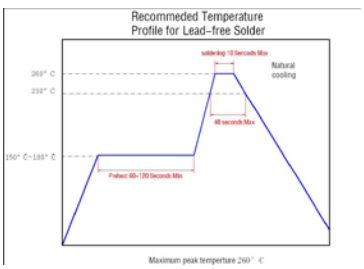
**2. Melting I2t at 0.001 sec clear-time**

## Clear-Time Characteristics

| % of current rating | Clear-time at 25℃ | |
|---|---|---|
| **100%** | **4 hours (min)** | |
| **200%** | **1 sec (min)** | **120 sec (max)** |
| **300%** | **0.1 sec (min)** | **3 sec (max)** |
| **800%** | **0.001 sec (min)** | **0.05 (max)** |

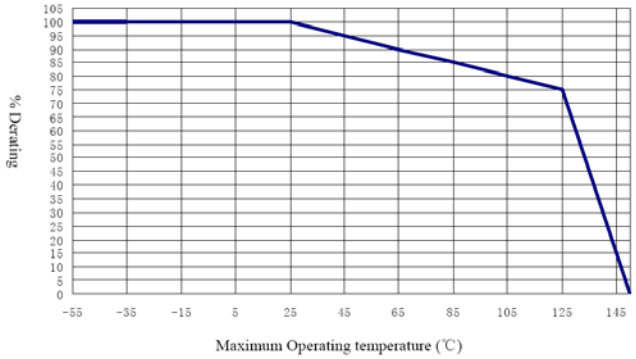
## Solder Reflow Recommendations




**Recommended conditions for hand soldering:**
1. Preheating: 150℃, 60s (min) Appropriate temperature (max) of soldering iron tip/soldering time (max): 280℃ /10s or 350℃ / 3s Maximum temperature of soldering iron tip/soldering time: 350℃ /9s or 400℃ / 8s
2. Using hot air rework station with tip that can melt the solder on both terminations of the same time is strongly recommended, don't directly

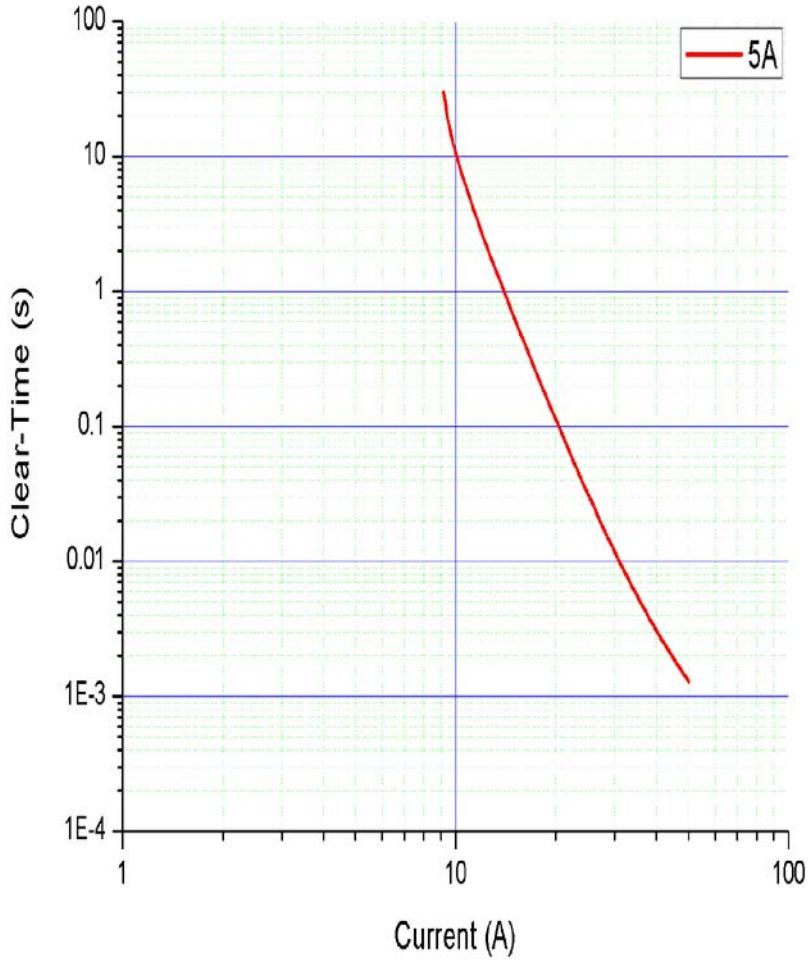
## Temperature De-rating Guideline



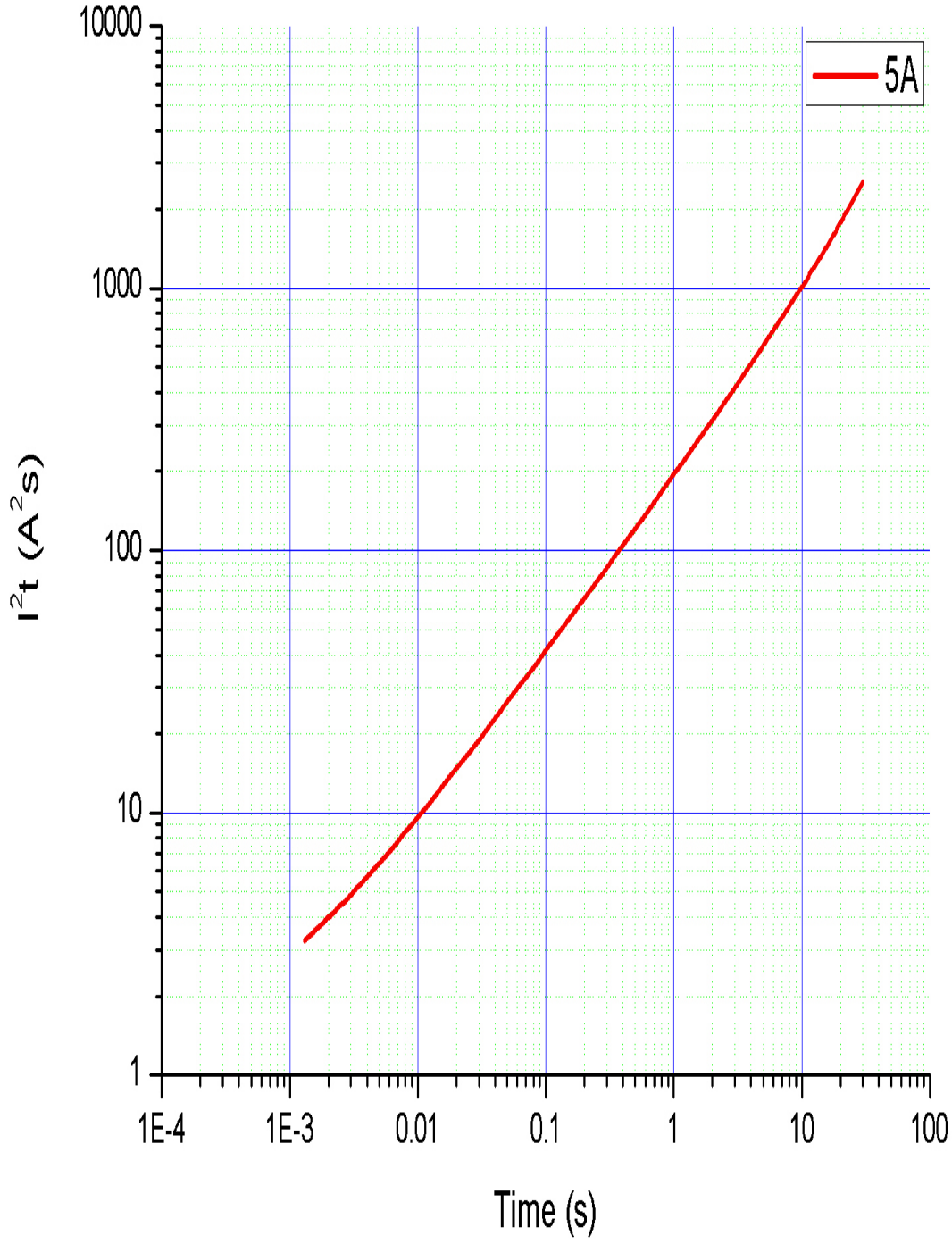

To select a fuse from the catalog, the following rule may be followed: Catalog Fuse Current Rating = Nominal Operating Current / 0.75 / % De-rating at the maximum operating temperature.

## Curves

### Average Clear-Time Curves



## $I^2t$ vs. t Curves




## Packaging Data

4000pcs （7inch/178mm Reel）