

Fast-Acting SMD Fuses 0603

multicomp^{PRO}

RoHS
Compliant



Description

The chip fuses stand out due to their ultra-small size and excellent electrical performance, reliability and quality. The solder-free design provides outstanding on-off and temperature cycling characteristics during operation and also makes our chip fuses more heat and shock tolerant than typical subminiature fuses.

These chip fuses are ideal for industrial products. They are widely used in cellphones, DVD players, battery packs, hard disk drives and digital cameras.

Features

- Pass the AEC-Q200 automotive grade certified
- Compatible with reflow and wave soldering
- Ceramic and glass construction
- Excellent environmental integrity
- Lead-free and Halogen-free
- Operating Temperature: -55°C to +150°C
- *Storage Conditions: +10°C to +60°C
- **Vibration Resistance: 24 cycles at 15 min. each (60068-6)
- Designed to UL 248-14

* Relative humidity: ≤ 75% yearly average without dew, maximum 30 days at 95%

** 10-60Hz at 0.75mm amplitude 60-2000Hz at 10g acceleration

Electrical Characteristics at 25°C

Part Number	Rated Current (A)	Rated Voltage DC	Typical Voltage Drop Max(mV)	Breaking Capacity	Typical Melting I ² T (A ² s)	Typical cold Resistance (mΩ)
MP006273	1	32V DC	330	50A@32V DC	0.012	215 ~ 284
MP006274	3		128		0.25	27 ~ 42

Note: 1. DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

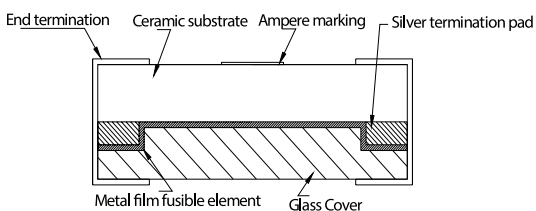
2. DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 degrees

3. Typical Pre-arcing I²t are measured at 10In Current

Time Vs Current Characteristic

Rated Current	100%	200%
1A to 3A	>4H	<60s

Construction



Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

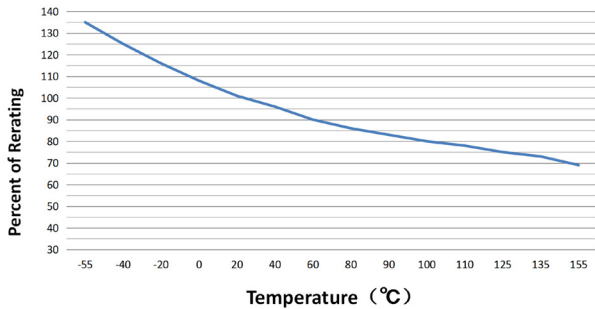
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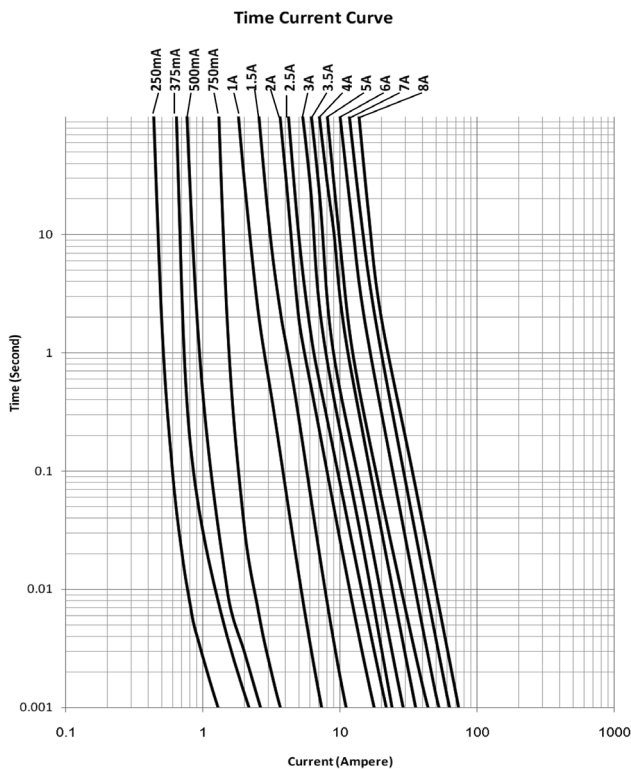
Temperature Derating Curve

Normal ambient temperature: 23±3°C

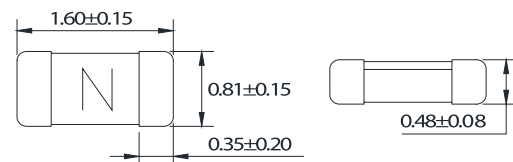
Operating temperature: -55°C to 150°C, with proper correction factor applied



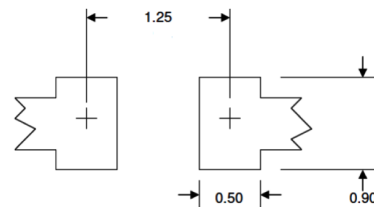
Time Current Curve



Diagram



Recommended Land Pattern



Part Number Table

Description	Part Number
SMD Fuse, Fast-Acting, 1A, 32V DC, 0603	MP006273
SMD Fuse, Fast-Acting, 3A, 32V DC, 0603	MP006274

Dimensions : Millimetres

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