1206 Fast Acting Line Voltage SMD Fuses

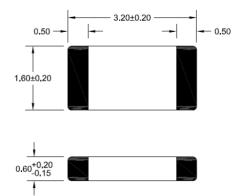












Description

12H 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

- ➤ 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

Applications

- Power supplies
- Battery Chargers
- · Consumer Electronicsii
- Industrial Controllers

Electrical Characteristics for Series

| Rating Current | 100% of Ampere Rating | 250% of Ampere Rating |
|----------------|-----------------------|-----------------------|
| 250mA~5A | 4 Hour, Min | 5sec. Max. |

Electrical Characteristic Specifications by Item

| Part No | Ra Volt DC | | Rated Current (A) | Breaking Capacity (A) 1 | Typical Cold. Resistance (mOhms) 2 | Typical Voltage Drop (mV) | Typical Pre- Arcing I2t (A2Sec) 3 | Alpha Mark |
|---------|------------------|-----|----------------------|----------------------------|--|---------------------------------|---|------------|
| 12H0250 | | | 0.25 | | 3608 | 1407 | 0.0004 | 0.25 |
| 12H0375 | | | 0.375 | | 1882 | 718 | 0.0008 | E |
| 12H0500 | | | 0.500 | | 1028 | 650 | 0.0022 | 0.5 |
| 12H0750 | | | 0.750 | | 601 | 616 | 0.0057 | 0.75 |
| 12H1100 | 125 | | 1 | | 240 | 300 | 0.0075 | Н |
| 12H1150 | V | | 1.5 | 50A | 160 | 245 | 0.013 | К |
| 12H1200 | | V | 2 | 50A | 80 | 200 | 0.04 | N |
| 12H1250 | | | 2.5 | | 51 | 140 | 0.045 | 0 |
| 12H1300 | | | 3 | | 32 | 130 | 0.065 | Р |
| 12H1350 | | 72V | 3.5 | | 25 | 120 | 0.075 | R |
| 12H1400 | 72V | | 4 | | 20 | 110 | 0.105 | S |
| 12H1500 | | | 5 | | 15 | 100 | 0.185 | Т |

- * AC Interrupting Rating (measured at designated voltage, 100% power factor); 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℃
- * Typical Pre-arcing I²t are measured at 10In Current

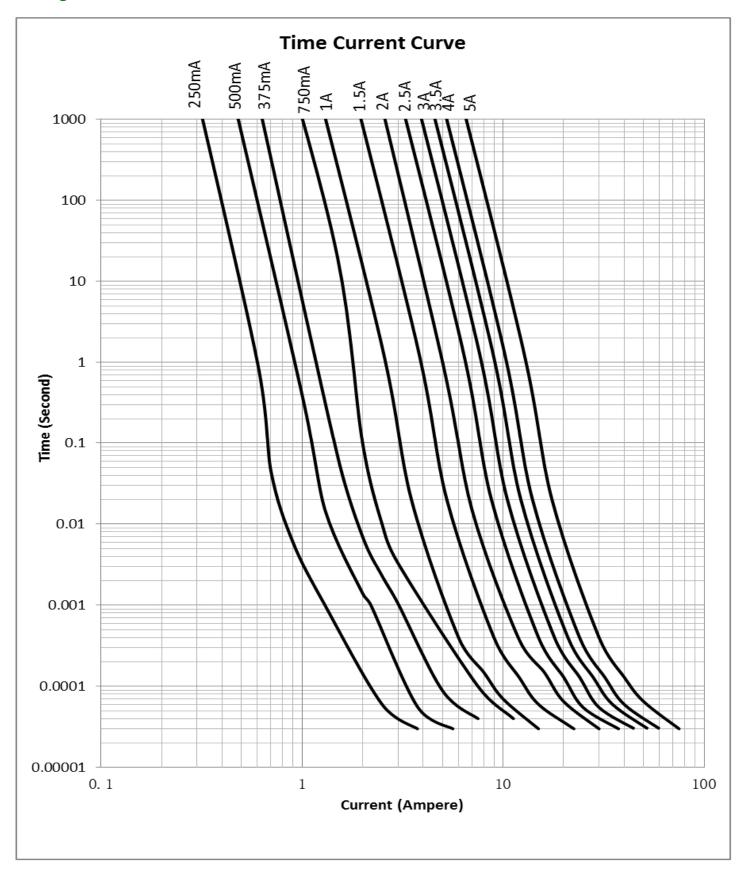








Average Time Current Curves



1206 Fast Acting Line Voltage SMD Fuses



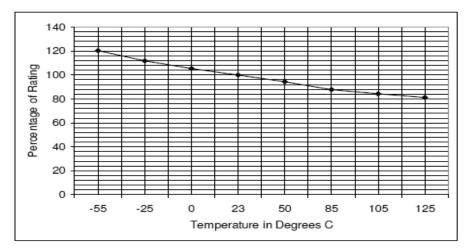






Temperature Re-rating Curve

- * Normal ambient temperature: 23±3°C
- * Operating temperature: -55 ~+125°C, with proper



Soldering Method

■Wave solder

Reservoir temperature:260°C

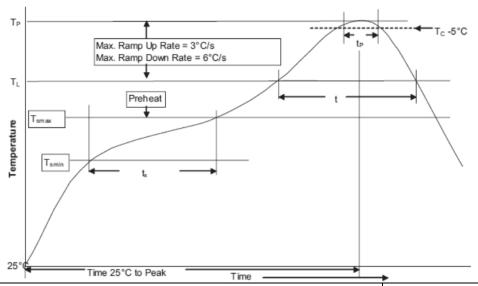
Time in reservoir:10 seconds maximum

■Infrared reflow

Temperature:260 °C

Time: 30 seconds maximum

Solder reflow profile



| Profile Feature | | Lead(Pb)free solder | |
|--|--------------------------------------|---------------------|--|
| | Temperature min.(T _{smin}) | 150℃ | |
| Preheat and soak | Temperature max.(T _{smax}) | 200℃ | |
| | $Time(T_{smin} to T_{smax})(ts)$ | 60 - 120 Seconds | |
| Average ramp up rate T _{smax} to T _p | | 3°C / Second Max. | |
| Liquidous temperature(T _L) | | 217℃ | |
| Time at liquidous(t _L) | | 60 - 150 Seconds | |
| Peak package body temperature(T _p) | | 260℃ | |
| Time(Tp)within 5° C of the specified classification temperature(Tc) | | 30 Seconds | |
| Average ramp-down rate(T _p to T _{smax}) | | 6°C / Second Max. | |
| Time(25°C to Peak Temperature) | | 8 Minutes Max. | |

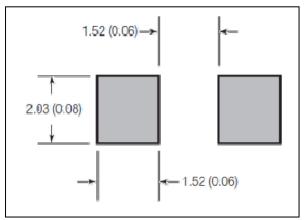




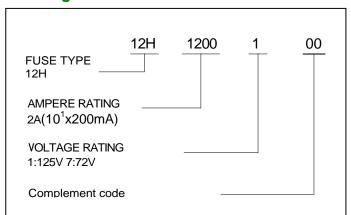




Mechanical Dimensions Unit:mm(inch)



Ordering Information



Packaging

| Packaging Option | Packaging Specification | Quantity |
|------------------|-------------------------|----------|
| 12H | tape-and-reel | 3000 |