

# 613 Miniature cartridge Fuse



## Main Characteristics

Miniature cartridge fuse; Fast-Acting(F)

## Standard

UL-248-14

## Materials

Tube: Ceramic Tube  
 End Caps: Nickel-plated brass  
 Axial Leads: Nickel-plated caps  
 Tin-plated copper wires

## Operating Temperature

-55°C to +125°C

## Storage Conditions

+10°C to +60°C  
 Relative humidity: ≤75% yearly average  
 Without dew, maximum 30 days at 95%

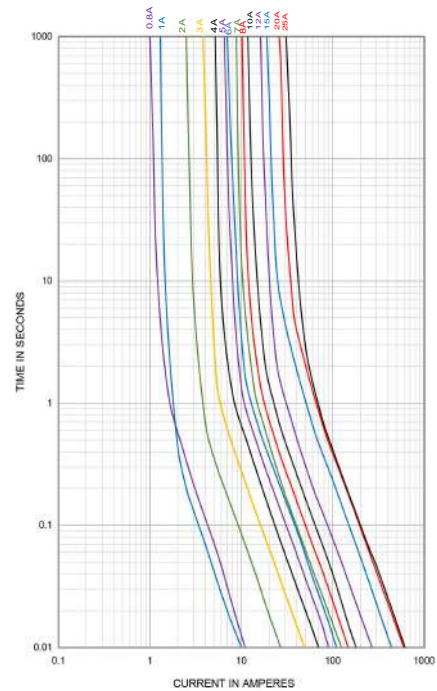
## Vibration Resistance

24 cycles at 15 min. each (60068-6)  
 10-60Hz at 0.75mm amplitude  
 60-2000Hz at 10g acceleration

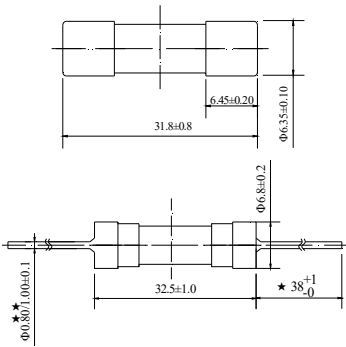
## Soldering Parameters

260°C. ≤5 sec (Wave Soldering)  
 350°C. ≤3 sec (Hand Soldering)  
**Soldering Peak:**  
 260°C. 10 sec. (IEC 60068-20)

Average Current Curve(I-T Curve)



Dimensions (unit:mm)



★: Short lead: 30mm  
 ★★: 500mA~12.5A : Φ0.80mm  
 15.0A~25.0A : Φ1.00mm

Time vs Current Characteristics:UL248-14 GB/T9364.7

Rated current	100%	135%	200%	275%	400%	1000%
500mA~25A(UL)	>4h	<1h	<10s	/	/	/
10A(GB)	>4h	/	<120s	50ms~10s	10ms~3s	≤100ms



Electrical Characteristics at 25°C

Amp	Rated Current	Rated Voltage	Nominal Melting I²t(A²sec)	Typical Cold Resistance (mΩ)	Breaking Capacity	Approvals			
						cULus	cURus	PSE	CQC
0500	500mA	125VAC 250VAC	0.49	470	10KA/125V AC 35A/250V AC	•	○	○	○
0630	630mA		0.81	310		•	○	○	○
0800	800mA		1.21	192		•	○	○	○
1100	1.00A		1.00	150	10KA/125V AC 100A/250V AC	•	○	○	○
1125	1.25A		1.44	97		•	○	○	○
1150	1.50A		2.10	93		•	○	○	○
1200	2.00A		7.29	68		•	○	○	○
1250	2.50A		11.2	47.3	10KA/125V AC 200A/250V AC	•	○	○	○
1300	3.00A		24.0	36.0		•	○	○	○
1315	3.15A		26.1	32.0		○	○	○	○
1400	4.00A		49	27.55		•	○	○	○
1500	5.00A		81	18.8		•	○	○	○
1600	6.00A		121	15.5	400A/125V AC 200A/250V AC	•	○	○	○
1800	8.00A		219	11.5		•	○	○	○
2100	10.00A		324	9.06		•	•	○	•
2120	12.00A		729	6.94	400A/125V AC 200A/250V AC	○	•	○	○
2150	15.00A		1936	4.40		○	•	○	○
2160	16.00A		2025	4.00		○	•	○	○
2200	20.00A		3600	3.30		○	•	•	○
2250	25.00A		3844	2.92	400A/125V AC;100A/250V AC	○	•	○	○

**Notes:** 1. Permissible continuous operating current is ≤100% at ambient temperature of 23°C (73.4°F)  
 2. The current values used for calculating I²T should be within the standard range of 8ms ~ 10ms.

## Ordering Information

Series	Amp Code	Supplementary Code	Qty
613			

