

# 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

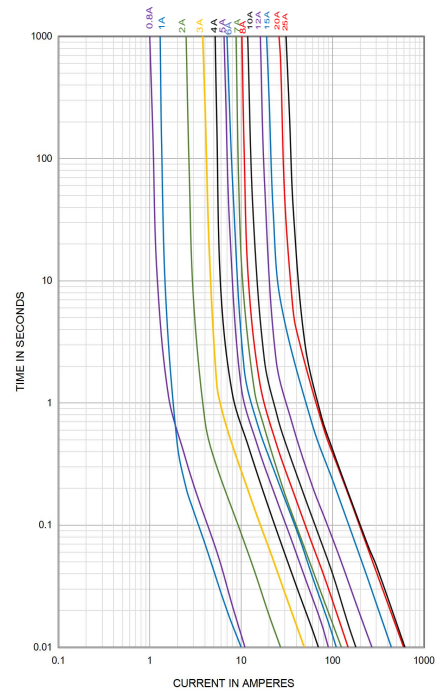
**Operating Temperature**  
-55°C to +125°C

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

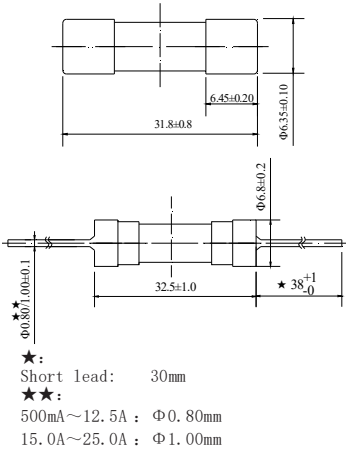
**Vibration Resistance**  
120 cycles in 1 direction at 1 min. each  
10-55Hz, 3 directions(X, Y, Z) in total  
According to MIL-STD-202 Method 201A

**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)



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	Rate de Current	Rate de Voltage	Nominal Melting I <sup>2</sup> t(A <sup>2</sup> sec)	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		•	○	○	○
1125	1.25A		1.44	97		•	○	○	○
1150	1.50A		2.10	93	10KA/125V AC 100A/250V AC	•	○	○	○
1200	2.00A		7.29	68		•	○	○	○
1250	2.50A		11.2	47.3		•	○	○	○
1300	3.00A		24.0	36.0		•	○	○	○
1315	3.15A		26.1	32.0		○	○	○	○
1400	4.00A		49	27.55	10KA/125V AC 200A/250V AC	•	○	○	○
1500	5.00A		81	18.8		•	○	○	○
1600	6.00A		121	15.5		•	○	○	○
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 I<sup>2</sup>T should be within the standard range of 8ms ~ 10ms.

### Ordering Information

Series	Amp Code	Supplementary Code	Qty
613			