

# 524 Miniature Cartridge Fuse



## Main Characteristics

Miniature Cartridge fuse; Time-Lag (T)

## Standard

IEC 60127-2/V

## Materials

- Tube: Ceramic
- 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

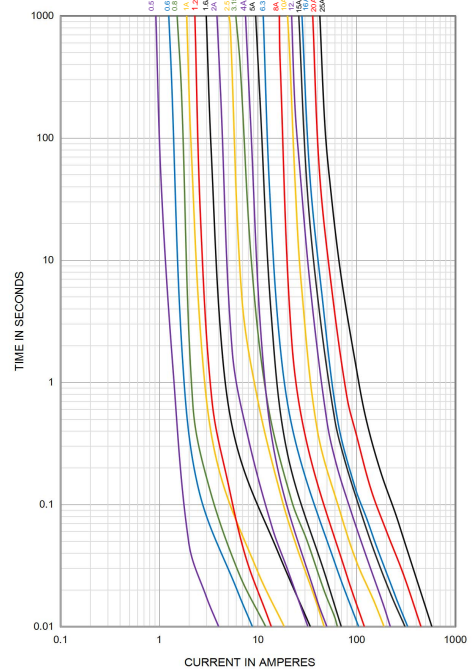
## Soldering Parameters

260°C. ≤5 sec (Wave Soldering)  
350°C. ≤3 sec (Hand Soldering)

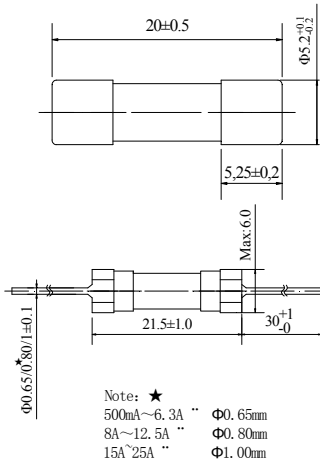
## Soldering Peak:

260°C. 10 sec. (IEC 60068-20)

Average Current Curve (I-T Curve)



Dimensions (units in mm)



Time vs Current Characteristics: IEC 60127-2/V

Rated Current	150%	210%	275%	400%	1000%
500mA~800mA	>1h	<30min	250ms~80s	50ms~5s	5ms~150ms
1.00A~3.15A	>1h	<30min	750ms~80s	95ms~5s	10ms~150ms
4.00A~10.00A	>1h	<30min	750ms~80s	150ms~5s	10ms~150ms
12.00A~25.00A	>30min	<30min	750ms~80s	150ms~8s	10ms~150ms



Electrical Characteristics at 25°C

Amp	Rated Current	Rated Voltage	Max Voltage Drop (mV)	Max. Power Dissipation (W)	Typical Cold Resistance (mΩ)	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec)	Breaking Capacity	Approvals									
								VDE	CCC	cURus	PSE	CQC	TUV	KC	BSI	SEMKO	
0500	500mA	125V AC 250V AC	850	1.6	450	0.16	10KA@125V AC 1500A@250V AC	•	•	•	•	•	•	•	•	•	•
0630	630mA		650	1.6	320	0.774		•	•	•	•	•	•	•	•	•	•
0800	800mA		500	1.6	230	1.44		•	•	•	•	•	•	•	•	•	•
1100	1.00A		350	2.5	150	3.42		•	•	•	•	•	•	•	•	•	•
1125	1.25A		300	2.5	125	1.86		•	•	•	•	•	•	•	•	•	•
1160	1.60A		200	2.5	65.0	5.76		•	•	•	•	•	•	•	•	•	•
1200	2.00A		190	2.5	56.5	4.84		•	•	•	•	•	•	•	•	•	•
1250	2.50A		180	2.5	40.0	9.61		•	•	•	•	•	•	•	•	•	•
1315	3.15A		140	4	30.0	15.21		•	•	•	•	•	•	•	•	•	•
1400	4.00A		100	4	23.0	25		•	•	•	•	•	•	•	•	•	•
1500	5.00A		100	4	15.0	49		•	•	•	•	•	•	•	•	•	•
1630	6.30A		100	4	12.1	110		•	•	•	•	•	•	•	•	•	•
1800	8.00A		100	4	8.70	144		•	•	•	•	•	•	•	•	•	•
2100	10.00A		100	4	6.80	361		•	•	•	•	•	•	•	•	•	•
2120	12.00A		100	4	5.40	462		•	•	•	•	•	•	•	•	•	•
2125	12.50A		100	4	5.00	484		•	•	•	•	•	•	•	•	•	•
2150	15.00A		100	4	3.80	992		•	•	•	•	•	•	•	•	•	•
2160	16.00A		100	4	3.44	1090		•	•	•	•	•	•	•	•	•	•
2200	20.00A		100	4	2.40	2025		•	•	•	•	•	•	•	•	•	•
2250	25.00A		100	4	1.90	3364	•	•	•	•	•	•	•	•	•	•	

- Note:** (1) Permissible continuous operating current is ≤100% at ambient temperature of 23°C (73.4°F)  
 (2) The cURus certification by 125V and 250V; the others certification only by 250V.  
 (3) 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
524			