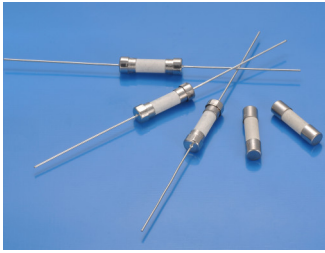


# 523 Quick-Acting Miniature Fuse



## Main Characteristics

Cartridge Miniature fuse; quick-acting (F)

## Standard

IEC 60127-2/ I

## 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%

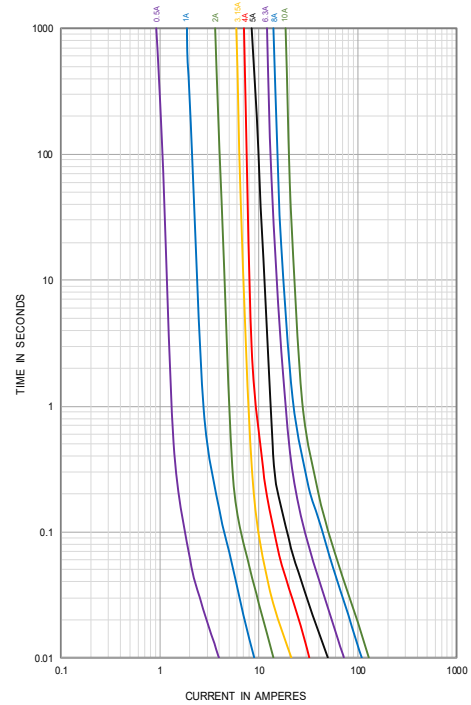
## Vibration Resistance

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

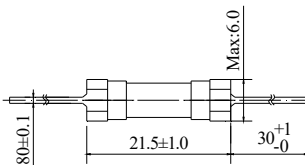
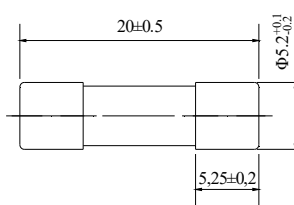
## Soldering Parameters

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

Average Time Current(I-T Curve)



Dimensions (unit in mm)



Note: ★  
 500mA / 6.3A .. Φ0.65mm  
 8A / 10A .. Φ0.80mm

Time vs Current Characteristics: IEC 60127-2/ I

Rated Current	150%	210%	275%	400%	1000%
500mA~4.0A	>1h	<30min	10ms~2s	3ms~300ms	≤20ms
4.1A~6.3A	>1h	<30min	10ms~3s	3ms~300ms	≤20ms
6.4A~10A	>1h	<30min	40ms~20s	10ms~1s	≤30ms



Electrical Characteristics at 25°C

Amp Code	Rated Current	Max. Voltage	Voltage Drop Max(mV)	Max Power Dissipation (mW)	Typical Code Resistance (mΩ)	Nominal Melting I²T (A²sec)	Breaking Capacity	Approvals				
								VDE	CQC	cURus	CCC	TUV
0500	500mA	250V AC	1800	2.5	530	0.152	1500A@250V AC 10KA@125V AC 50~60Hz COSΦ=0.7~0.8	●	○	●	●	●
0630	630mA		1500	2.5	340	0.24		○	○	●	○	●
0800	800mA		1200	2.5	230	0.533		○	○	●	○	●
1100	1.00A		1000	2.5	178	0.81		○	○	●	●	●
1125	1.25A		800	4.0	125	1.23		○	○	●	○	●
1160	1.60A		600	4.0	96	1.3		●	○	●	○	●
1200	2.00A		500	4.0	58	1.96		○	○	●	○	●
1250	2.50A		400	4.0	46	3.06		○	○	●	○	●
1315	3.15A		350	4.0	34	4.41		●	○	●	●	●
1400	4.00A		300	4.0	32.5	10.43		○	○	●	○	●
1500	5.00A		250	4.0	23.5	25		○	○	●	○	●
1630	6.30A		200	4.0	15.5	53.3		●	○	●	●	●
1800	8.00A		200	4.0	11.5	121		●	○	●	○	●
2100	10.00A		200	4.0	6.8	136		●	○	●	●	●

**Notes:** (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.

## Ordering Information

Series	Amp Code	Supplementary Code	Qty
523			

