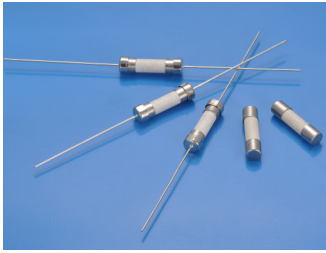


# 523 Miniature Cartridge Fuse



## Main Characteristics

Miniature Cartridge fuse; Fast-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%

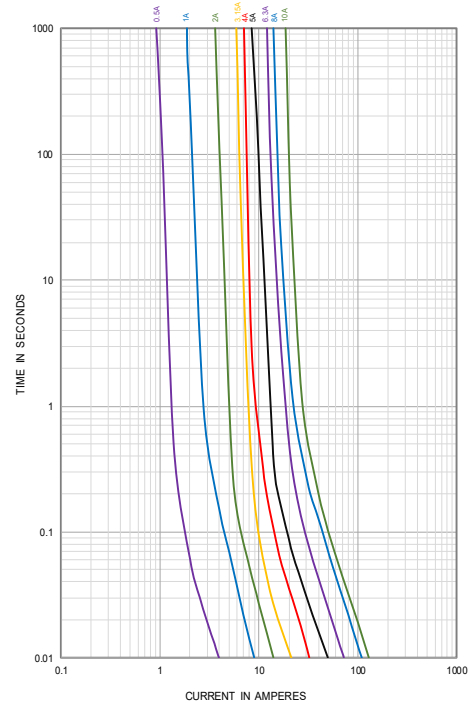
## Vibration Resistance

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

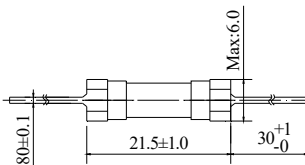
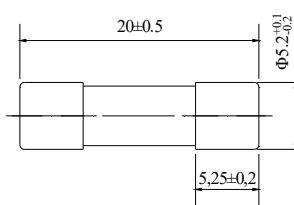
## Soldering Parameters

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

Average 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

Amp Code	Rated Current	Rated Voltage	Voltage Drop Max(mV)	Max Power Dissipation (W)	Typical Cold Resistance (mΩ)	Nominal Melting I <sup>2</sup> T (A <sup>2</sup> sec)	Breaking Capacity	Approvals						
								KC	VDE	CQC	cURus	CCC	TUV	PSE
0500	500mA	250V AC	1800	2.5	530	0.152	1500A@250V AC 10KA@125V AC	●	●	○	●	●	●	○
0630	630mA		1500	2.5	340	0.240		●	○	○	●	●	●	○
0800	800mA		1200	2.5	230	0.533		●	○	○	●	●	●	○
1100	1.00A		1000	2.5	178	0.810		●	○	○	●	●	●	○
1125	1.25A		800	4.0	125	1.23		●	○	○	●	●	●	○
1160	1.60A		600	4.0	96.0	1.30		●	●	○	●	●	●	○
1200	2.00A		500	4.0	65.0	2.97		●	○	○	●	●	●	○
1250	2.50A		400	4.0	46.0	3.06		●	○	○	●	●	●	○
1315	3.15A		350	4.0	34.0	4.41		●	○	○	●	●	●	○
1400	4.00A		300	4.0	32.5	10.4		●	○	○	●	●	●	○
1500	5.00A		250	4.0	23.5	25.0		●	○	○	●	●	●	○
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	6.80	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.  
(3) The current values used for calculating I<sup>2</sup>T should be within the standard 8ms~10ms

## Ordering Information

Series	Amp Code	Supplementary Code	Qty
523			