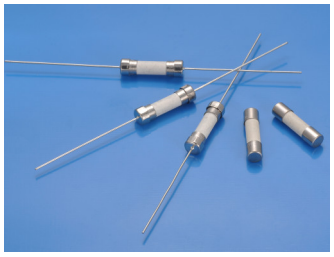
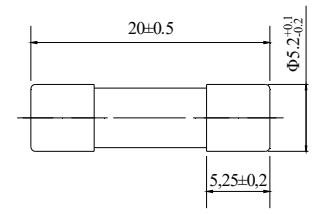
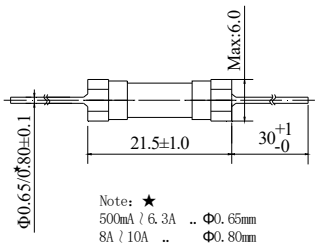
523 Miniature Cartridge Fuse



Dimensions (unit in mm)





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℃ to +125℃

Storage Conditions

+10℃ to +60℃

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

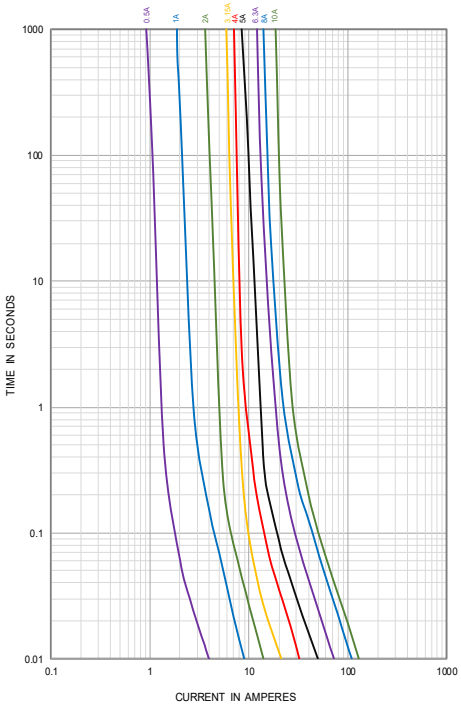
260℃.≤5 sec (Wave Soldering)

350℃.≤3 sec (Hand Soldering)

Soldering Peak:

260℃. 10 sec. (IEC 60068-20)

Average Time Current(I-T Curve)



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

Electrial Characteristics at 25℃								Approvals				
Amp Code	Rated Current	Rated Voltage	Voltage Drop Max(mV)	Max Power Dissipation (W)	Typical Cold Resistance (mΩ)	Nominal Melting I²T (A²sec)	Breaking Capacity	VDE	CQC	cURus	CCC	TUV
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	58.0	1.96		○	○	●	○	●
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 I2T should be within the standard 8ms~10ms

Ordering Information

Series	Amp Code	Supplementary Code	Qty
523			

Sales Contact
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Technical Support
Kenny@betterfuse.com