

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Fast-Acting SMD Brick[™] Fuses CB61F Series





Description

The fast-acting CB61F Series of SMD Brick[™] fuse provides high breaking capacity performance in a CQC Approved SMD package. The CB61F Series offers 125Vac/50A and 125Vdc/300A protection up to 15 amps, which is among the highest in its class.

Features

- High Interrupting Ratings: 50A @ 125Vac / 300A @ 125Vdc
- Wide Selection: The CB61F Series is available in ratings from 2 to 15 amps providing a range of solutions for applications requiring fast-acting performance
- · CQC Approved: Meets the growing market demand.
- cULus Certified and PSE Level 1 Certified
- Excellent Environmental Integrity: lead-free, halogen free and RoHS compliant, and present no disposal issues at end of life.
- Solder immersion compatible
- Wire-in-Air design

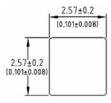
Applications

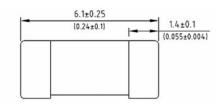
- LCD/PDP TVs
- LCD Monitors
- LCD backlight inverters

- Notebooks
- Servers
- · Power supplies

- Telecom/PoE
- Medical equipment
- equipment White goods
- · Industrial applications

Dimensions - mm Drawing Not to Scale





Agency Information

- cULus: Standard UL 248-14, Guide JDYX, File E 19180 and Guide JDYX7, File E19180
- PSE: JET 1641-31007-1003 (2A-5A) JET 1641-31007-1004 (6.3A-10A) JET 1641-31007-1005 (12-15A)
- CQC: CQC09012040316 (2A-6.3A & 8A-10A)

Ordering

Specify product and packaging code

Environmental Data

- Mechanical Shock: MIL-STD-202G, Method 213B, Test Condition C (100 G's peak for 6 milliseconds; half-sine waveform)
- Mechanical Vibration: MIL-STD-202G, Method 201, Test Condition A (10-55Hz, 0.06 inch, total excursion)
- Insulation Resistance: MIL-STD-202, Method 302, Test Condition A (after opening) 10,000 ohms minimum
- Resistance to Solder Heat: MIL-STD-202G, Method 210F, Test Condition D (10 sec, at 260°C); Test Condition A (350°C, 5s) for hand solder
- Thermal Shock: MIL-STD-202, Method 107G, Test Condition B (-65°C to +125°C)

Specifications											
	Current	Voltage		Interrupting		Typical Cold	Typical	Typical	Agency		
Catalog	Ratings	Ratings		Ratings (amps)*		Resistance	Melting	Voltage	Approvals		
Number	(amps)	Vac	Vdc	125Vac	125Vdc	(Ω)**	I2t (A2s)***	Drop (mV):	cULus	PSE	CQC
CB61F2A	2	125	125	100	300	0.039	0.85	100	X	Х	Х
CB61F3A	3	125	125	100	300	0.025	2.08	100	Х	Х	Х
CB61F4A	4	125	125	100	300	0.017	4.4	93	Х	Х	Х
CB61F5A	5	125	125	100	300	0.013	7.7	90	X	Х	Х
CB61F6.3A	6.3	125	125	100	300	0.010	13.7	90	Х	Х	Х
CB61F7A	7	125	125	100	300	0.009	15.6	85	Х	Χ	
CB61F8A	8	125	125	100	300	0.008	19.5	90	X	Χ	Χ
CB61F10A	10	125	125	100	300	0.006	36	90	Х	Х	Х
CB61F12A	12	125	125	50	300	0.005	40	90	Х	Χ	
CB61F15A	15	125	125	50	300	0.004	56	85	Х	Х	

^{*} AC Interrupting Rating (measured at designated voltage, 100% power factor); DC Interrupting Rating (measured at designated voltage, time constant of less than 50 microseconds, battery source)

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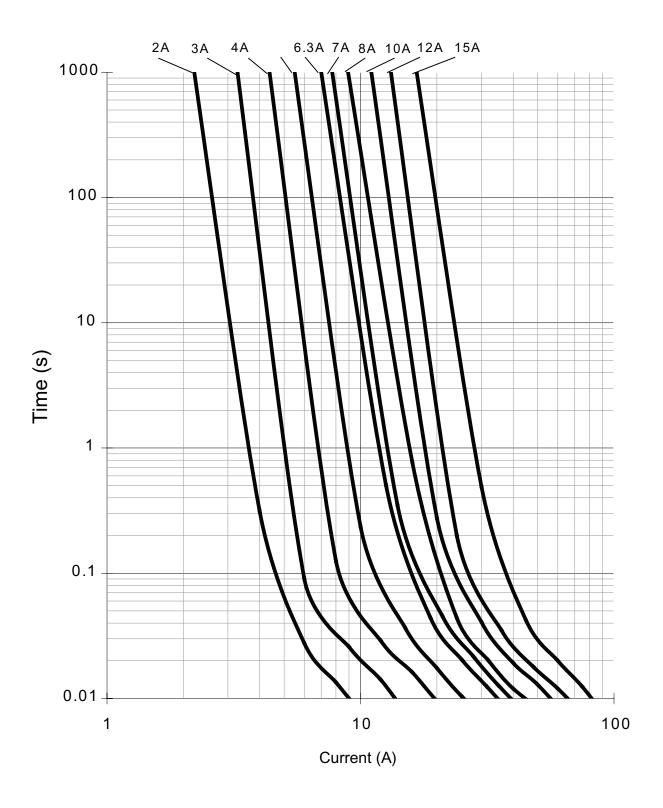
^{**} Typical Cold Resistance (measured at 10% of rated current)

^{***} Typical Melting I't (measured with a battery bank at rated DC voltage, 10x-rated current, time constant of calibrated circuit less than 50 microseconds)

[‡] Typical Voltage Drop (measured at rated current after temperature stabilizes)



Time-Current Curves



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Soldering Characteristics

Wave Immersion

• Reservoir Temperature: 260° C

• Time in Reservoir: 10 Seconds Maximum

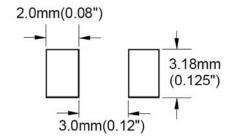
Infrared Reflow

Temperature: 260° CTime: 30 Seconds Maximum

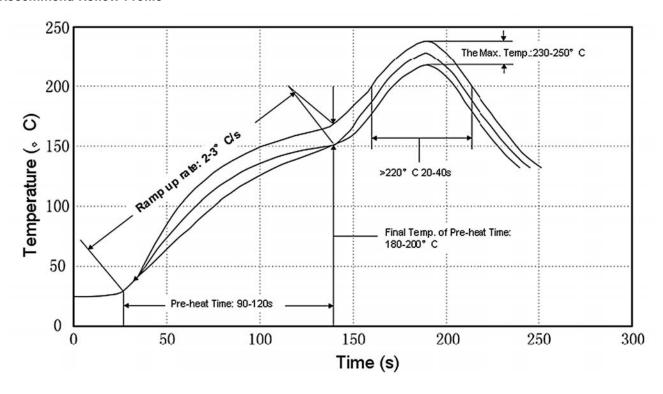
Hand Soldering

Maximum tip temperature: 350°CMaximum soldering time: 5 seconds max

Recommended Pad Layout



Recommend Reflow Profile



Packaging Code						
Packaging Code Suffix	Description					
-TR1	1000 Fuses in Tape and Reel on 7 inch (178mm) diameter reel					
-TR2	5000 Fuses in Tape and Reel on 13 inch (330mm) diameter reel					

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