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TABLE OF CONTENTS

1. SCOPE AND DESCRIPTION	3
2. GENERAL INFORMATION	.3
3. AGENCY APPROVALS	.3
4. PART NUMBERING SYSTEM	4
5. MECHANICAL SPECIFICATIONS	.5
6. ELECTRICAL SPECIFICATIONS	. 6
7. SOLDERING PARAMETERS	.8
8. ORDERING INFORMATION	.8
9. PACKING INFORMATION	.9
10. APPENDIX	10



1. SCOPE AND DESCRIPTION



Following electronic product specifications apply to fuses of the 243 series. The 243 series is a fast-acting type brick fuse for over-current protection.

As the fast-acting characteristics these fuses can resist inrush current. And widely used in notebook PC, telecom system, LCD/PDP TV, wireless goods, LCD monitor, white goods, LCD/PDP panel, game console, power supply, net working and other electronics products.

2. GENERAL INFORMATION

General Description

243 brick fuse for the small size and good electrical performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics during use and also makes our brick fuses more heat and shock tolerant than typical subminiature fuses.

Detailed Features

- Rapid interruption of excessive current
- · Compatible with reflow and wave soldering
- Ceramic body and Gold plated copper terminal
- Excellent environmental integrity
- · One time positive disconnect
- · Lead-free, Halogen-free, RoHS compliant
- Designed to UL 248-14
- Compliant to Better's environment standard of <Technical Standard of Environmental management substances>

3. AGENCY APPROVALS

Agency	Agency File Number	Ampere/ Voltage Range
	E497847	125V/250V AC:100mA~12A 86V/100V/125V DC:100mA~40A

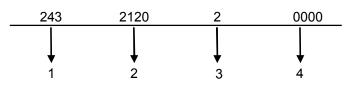




4. PART NUMBERING SYSTEM

4.1 Part Number

Example: 243212020000



Product Series.....
 Ampere Rating......
 Voltage Rating.....

243 12A (see table 4.3 below) 1: 125V 2: 250V

4.Supplementary Code.....

4.2 Supplementary Code Table

CODE	DESIGNATION		
0000	Standard product		

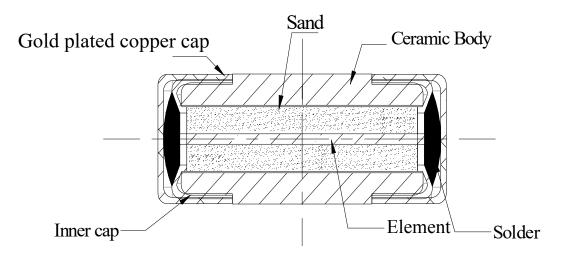
See table 4.2 below
4.3. Ampere / Voltage Rating Table

AMP CODE	AMPERE RATING	VOLTAGE RATING
0160	160mA	86/100/125V DC 125/250 AC
0250	250mA	86/100/125V DC 125/250 AC
0500	500mA	86/100/125V DC 125/250 AC
0800	800mA	86/100/125V DC 125/250 AC
1100	1.00A	86/100/125V DC 125/250 AC
1150	1.50A	86/100/125V DC 125/250 AC
1200	2.00A	86/100/125V DC 125/250 AC
1250	2.50A	86/100/125V DC 125/250 AC
1300	3.00A	86/100/125V DC 125/250 AC
1400	4.00A	86/100/125V DC 125/250 AC
1500	5.00A	86/100/125V DC 125/250 AC
1630	6.30A	86/100/125V DC 125/250 AC
1700	7.00A	86/100/125V DC 125/250 AC
1800	8.00A	86/100/125V DC 125/250 AC
2100	10.0A	86/100/125V DC 125/250 AC
2120	12.0A	86/100/125V DC 125/250 AC
2150	15.0A	86/100/125V DC
2200	20.0A	86/100/125V DC
2250	25.0A	86/100/125V DC
2300	30.0A	86/100/125V DC
2400	40.0A	86/100/125V DC

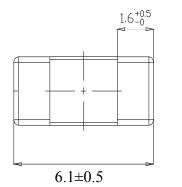


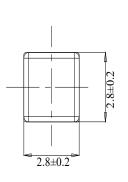


5. MECHANICAL SPECIFICATIONS

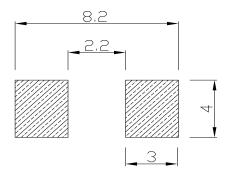


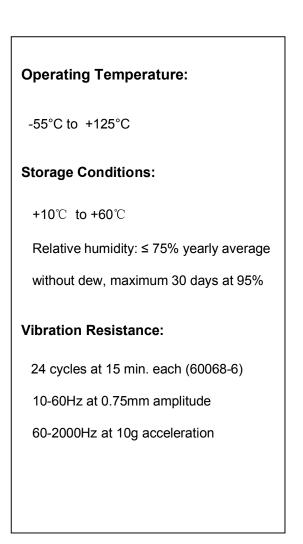
Dimensions (unit: mm)





Recommended land pattern









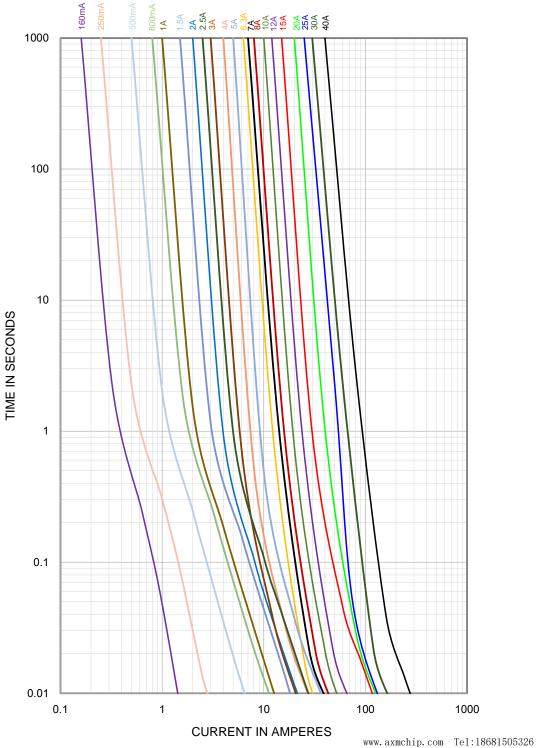
6. ELECTRICAL SPECIFICATIONS

Time vs Current Characteristics Table

(measured with constant current power supply)

Time vs Current Characteristics: UL248-14					
Rated current	100%	200%			
100mA~40A	>4h	<5s			

Average Time Current (I-T) Curves



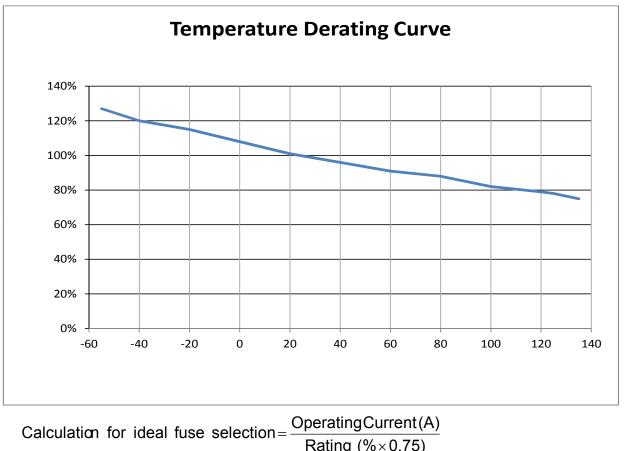


Electrical characteristics

Electrial Characteristics at 25°C								
Amp	Rated	Rated Voltage	Typical Voltage Drop	Breaking Capacity	Typical Melting	Typical Cold Resistance	Approvals	
Code	Current	Raled Vollage	Max(mV)	bicating Dupuony	I2T(A2s)	(mΩ)	cURus	
0160	160mA		800		0.015	2254.0	•	
0250	250mA		500		0.083	799.3	•	
0500	500mA		250		0.480	274.8	•	
0800	800mA		200		1.4	128.3	•	
1100	1.00A		200		1.8	97.1	•	
1150	1.50A		200		3.7	60.0	•	
1200	2.00A		150		4.7	37.0	•	
1250	2.50A	86/100/125V DC 125/250V AC	150	10KA@86VDC 50A@250VAC	7.7	28.6	•	
1300	3.00A		150		3.7	22.1	•	
1400	4.00A		150		6.1	16.25	•	
1500	5.00A		150	300A@125VDC	11.9	13.79	•	
1630	6.30A		100		8.3	9.19	•	
1700	7.00A		100		12.5	8.68	•	
1800	8.00A		100		16.2	6.88	•	
2100	10.0A		100		23.3	5.57	•	
2120	12.0A		100		39.3	4.52	•	
2150	15.0A		100	10KA@86VDC	130.5	3.86	•	
2200	20.0A		100	300A@125VDC	140.0	2.53	•	
2250	25.0A	86/100/125V DC	100		170.6	2.10	•	
2300	30.0A		100	300A@125VDC 500A@86VDC/100VDC	270.0	1.65	•	
2400	40.0A		100		724.8	1.13	•	

Note: (1) Permissible continuous operating current is ≤100% at ambient temperature of 23° C (73.4° F) (2) The current values used for calculating I2T should be within the standard 10In.

Temperature Derating Curve



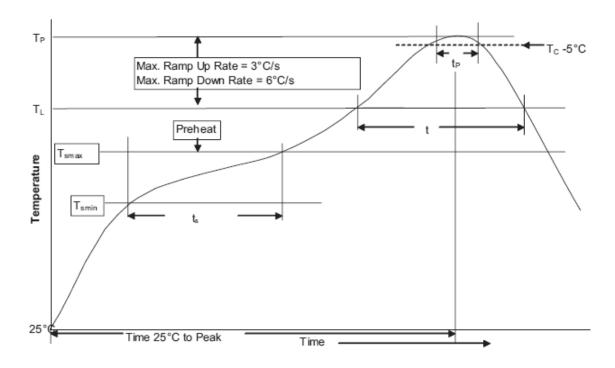
Rating (%×0.75)



7.

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SOLDERING PARAMETERS



1.Infrared Reflow:	Profile Feature	Lead (Pb)free solder	
Temperature:260°C	Average Ramp-UP Rate	3℃/s Max.	
Time:30sec Max.		Temperature min.(Tsmin)	150℃
Recommend reflow profile	Preheat and soak	Temperature max.(Tsmax)	200 ℃
2.Wave Soldering		Time (Tsmin to Tsmax)(ts)	60~120s
Reservoir	Liquidous temperature(Time at liquidous(tL)	217℃ 60~150S	
Temperature:260℃	Peak package body ten	260 ℃	
Time in Reservoir:10sec Max.	Time (tP) within 5 $^\circ\!{ m C}$ of t (Tc)	30S	
	Average ramp-down rat	6℃/s Max.	
	Time (25 $^\circ C$ to Peak Ter	8 Minutes Max.	

8. ORDERING INFORMATION

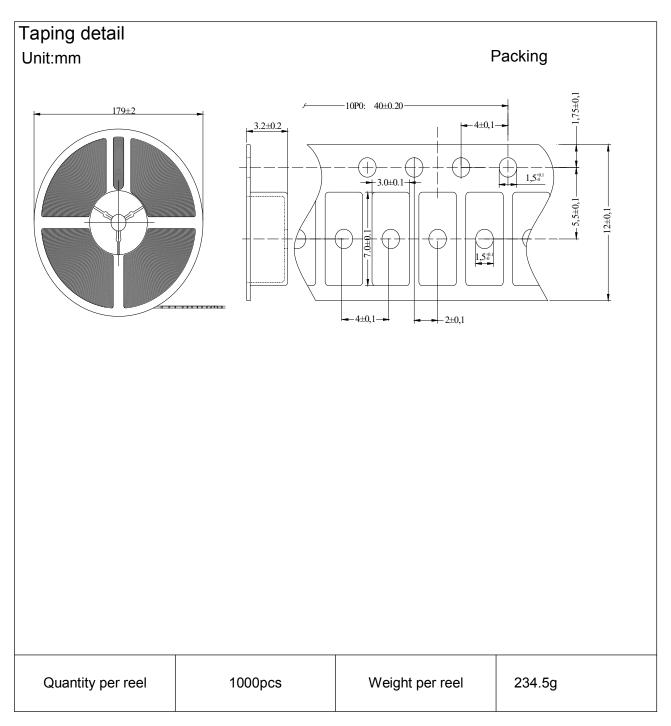
The following information are necessary in order to place your order with us correctly:

Series	Amp code	Supplementary Code	Qty
243			





PACKING INFORMATION



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东莞市贝特电子科技股份有限公司

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10. APPENDIX

UL Product **iQ**[™]



JFHR8.E497847 - Special-purpose Fuses Certified for Canada - Component

Special-purpose Fuses Certified for Canada - Component

See General Information for Special-purpose Fuses Certified for Canada - Component

DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD

E497847

Rm 601 Of 16 Blk Xinzhuyuan No 4 Xinzhu Rd Songshanlake Hightech Industrial Development Zone Dongguan, Guangdong 523808 CHINA **Special Purpose Fuse**, Model(s) 243, 240, 254 or 255 (Same product different Cat. Nos.).

Special Purpose Fuse, Model(s) 487 followed by 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 90

Special Purpose Fuse, Model(s) 487 followed by 80, 100

Special Purpose Fuse, Model(s) 491 or 492 (Same product different Cat. Nos.) followed by 20, 30, 40, 50, 60, 70, 80, 90, 100 or 125.

Special Purpose Fuse, Model(s) 493 or 494 (Same product different Cat. Nos.) followed by 20, 30, 40, 50, 60, 70, 80, 90, 100 or 125.

Special Purpose Fuse, Model(s) 671 (b)

Special Purpose Fuse, Model(s) FS08H, followed by 050, 100, 150, 200, 250, 315, 350 or 400, followed by blank or F

(b) - followed by ampere 0.1-63 and may followed by suffix P, BT or Blank.

Marking: Company name, model designation and the Recognized Component Mark for Canada,



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UL Product **iQ**[™]

JFHR2.E497847 - Special-purpose Fuses - Component

Special-purpose Fuses - Component

See General Information for Special-purpose Fuses - Component

DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD

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