

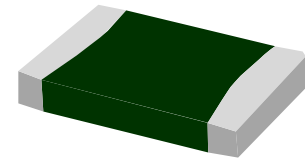
Slow Blow SMD Fuses 1206BC-D Series

Descriptions

Chip Fuse devices are set the industry standard for performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics during use and also makes our SMD fuses more heat and shock tolerant than typical subminiature fuses.

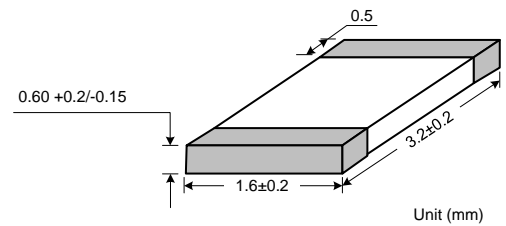
1206BC-D SMD fuse s for the small size and good electrical performance, reliability and quality.

Electrical Characteristics						
Rated Current	1.0In	2.0In	2.5In	3.0In	3.5In	10In
0.75A~3A	4 hr min	1-60s	5s max	0.1-3s		0.2- 20ms
3.5A~5A		-				
6A~30A		-	-			



Top View (1206BC)

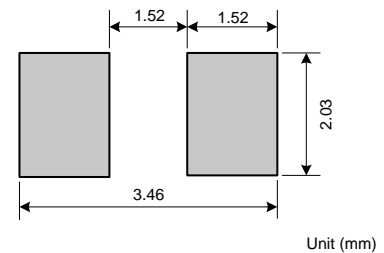
Product Dimensions



Features

- High inrush current withstanding capability
- AEC-Q200 Automotive Grade Certified
- Compatible with reflow and wave solder
- Ceramic and glass construction
- Excellent environmental integrity
- One time positive disconnect
- Lead Free and Halogen free material

Recommended land pattern



Electrical information (Tamb=25°C)

Part number	Rated Voltage	Rated Current	Breaking Capacity * (A)	Typical Cold. Resistance *	Typical Voltage Drop	Typical Pre-arcing I ² t *
	DC (V)	(A)	72V DC	(mΩ)	(mV)	(A ² Sec)
1206BC72-0075D	72	0.75	50	850	1150	0.019
1206BC72-0100D	72	1.00	50	480	510	0.11
1206BC72-0150D	72	1.50	50	230	367	0.17
1206BC72-0200D	72	2.00	50	140	316	0.41
1206BC72-0250D	72	2.50	50	80	240	0.68
1206BC72-0300D	72	3.00	50	50	187	1.5
1206BC72-0350D	72	3.50	50	38	180	2
1206BC72-0400D	72	4.00	50	34	173	2.5

Part number	Rated Voltage	Rated Current	Breaking Capacity * (A)	Typical Cold. Resistance *	Typical Voltage Drop	Typical Pre-arcing I ² t *
	DC (V)	(A)	63V DC	(mΩ)	(mV)	(A ² Sec)
1206BC63-0075D	63	0.75	50	850	1150	0.019
1206BC63-0100D	63	1.00	50	480	510	0.11
1206BC63-0150D	63	1.50	50	230	367	0.17
1206BC63-0200D	63	2.00	50	140	316	0.41
1206BC63-0250D	63	2.50	50	80	240	0.68
1206BC63-0300D	63	3.00	50	50	187	1.5
1206BC63-0350D	63	3.50	50	38	180	2
1206BC63-0400D	63	4.00	50	34	173	2.5

Part number	Rated Voltage	Rated Current	Breaking Capacity * (A)	Typical Cold. Resistance *	Typical Voltage Drop	Typical Pre-arcing I ² t *
	DC (V)	(A)	45V DC	(mΩ)	(mV)	(A ² Sec)
1206BC45-0050D	45	0.50	50	930	1180	0.017
1206BC45-0075D	45	0.75	50	850	1150	0.019
1206BC45-0100D	45	1.00	50	480	510	0.11
1206BC45-0150D	45	1.50	50	230	367	0.17
1206BC45-0200D	45	2.00	50	140	316	0.41
1206BC45-0250D	45	2.50	50	80	240	0.68
1206BC45-0300D	45	3.00	50	50	187	1.5
1206BC45-0350D	45	3.50	50	38	180	2
1206BC45-0400D	45	4.00	50	34	173	2.5
1206BC45-0450D	45	4.50	50	25	164	2.65
1206BC45-0500D	45	5.00	50	21.5	145	4
1206BC45-0600D	45	6.00	50	16	140	12
1206BC45-0700D	45	7.00	50	12.3	130	14

Part number	Rated Voltage	Rated Current	Breaking Capacity * (A)	Typical Cold. Resistance *	Typical Voltage Drop	Typical Pre-arcing I ² t *
	DC (V)	(A)	32V DC	(mΩ)	(mV)	(A ² Sec)
1206BC32-0050D	32	0.50	50	930	1180	0.017
1206BC32-0075D	32	0.75	50	850	1150	0.019
1206BC32-0100D	32	1.00	50	480	510	0.11
1206BC32-0150D	32	1.50	50	230	367	0.17
1206BC32-0200D	32	2.00	50	140	316	0.41
1206BC32-0250D	32	2.50	50	80	240	0.68
1206BC32-0300D	32	3.00	50	50	187	1.5
1206BC32-0350D	32	3.50	50	38	180	2
1206BC32-0400D	32	4.00	50	34	173	2.5
1206BC32-0320D	32	4.50	50	25	164	2.65
1206BC32-0500D	32	5.00	50	21.5	132	4
1206BC32-0600D	32	6.00	50	16	140	12
1206BC32-0700D	32	7.00	50	12.3	130	14
1206BC32-0800D	32	8.00	150	10	123	16
1206BC32-1000D	32	10.00	150	7	110	22
1206BC32-1200D	32	12.00	150	5	85	11.5
1206BC32-1500D	32	15.00	150	3.5	78	16.5
1206BC32-2000D	32	20.00	150	3.4	80	50
1206BC32-2500D	32	25.00	150	1.6	90	60
1206BC32-3000D	32	30.00	150	1.3	90	100

Part number	Rated Voltage	Rated Current	Breaking Capacity * (A)	Typical Cold. Resistance *	Typical Voltage Drop	Typical Pre-arcing I ² t *
	DC (V)	(A)	24V DC	(mΩ)	(mV)	(A ² Sec)
1206BC24-0800D	24	8.00	300	10	123	16
1206BC24-1000D	24	10.0	300	7	110	22
1206BC24-1200D	24	12.0	300	5	85	11.5
1206BC24-1500D	24	15.0	300	3.5	78	16.5
1206BC24-2000D	24	20.0	300	3.4	80	50
1206BC24-2500D	24	25.0	300	1.6	90	60
1206BC24-3000D	24	30.0	300	1.3	90	100

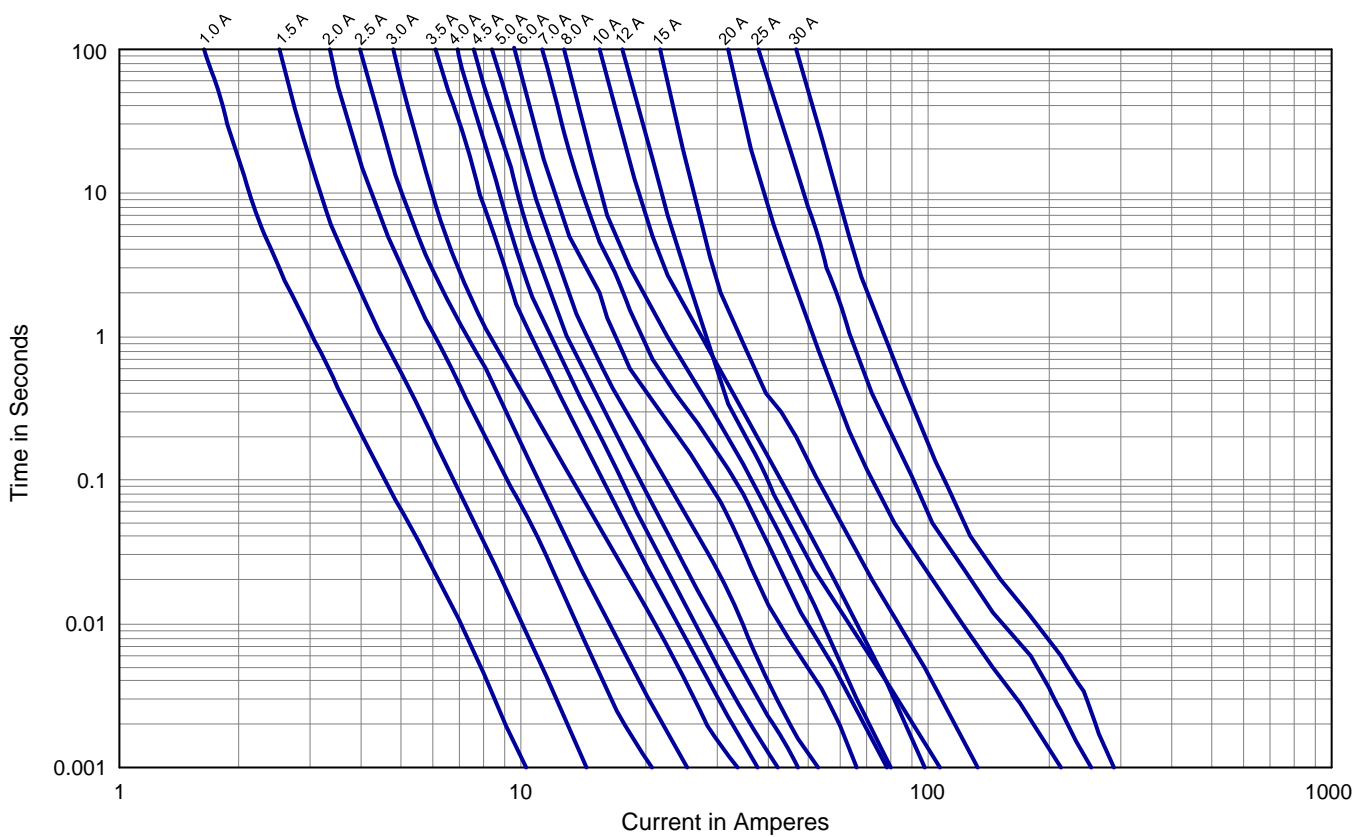
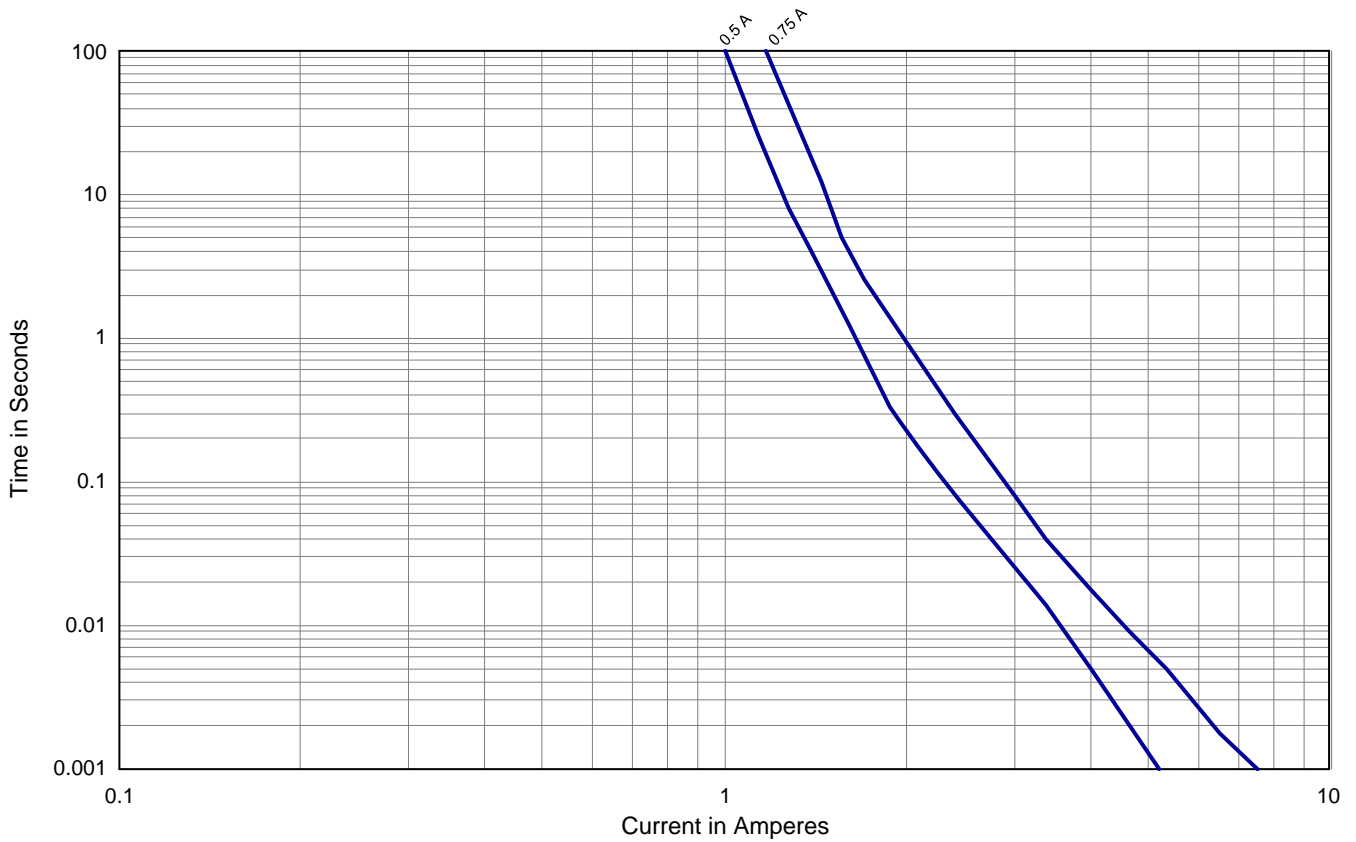
* DC Interrupting Rating (measured at designated voltage, time constant of less than 50 microseconds, battery source)

* DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 °C

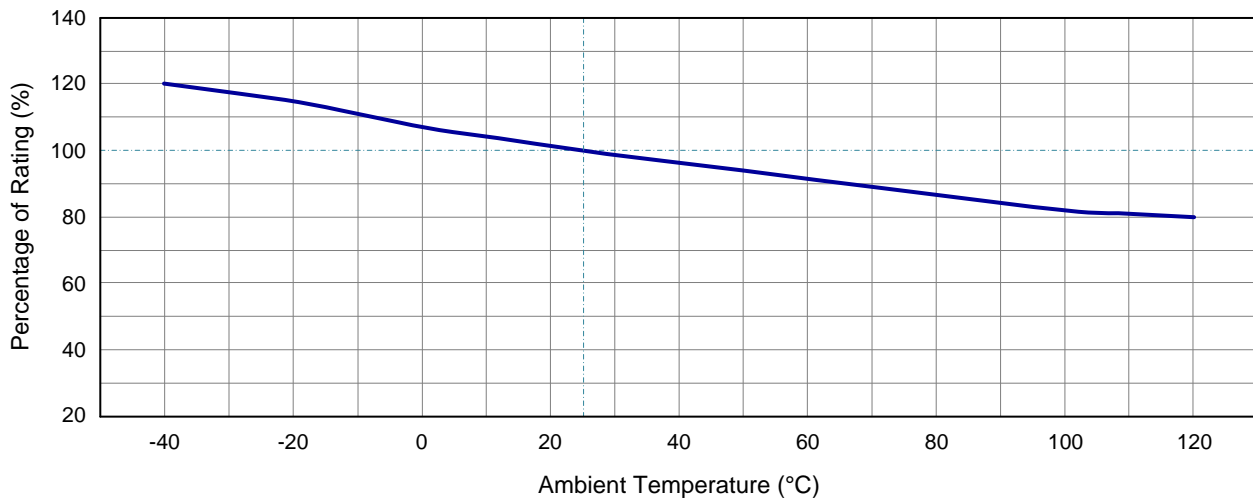
* Typical Pre-arcing I²t are measured at 10In Current

* UL approval for 8-30A @ 32Vdc is pending

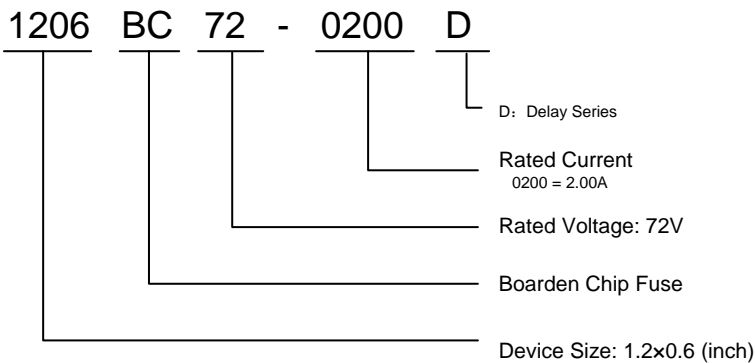
Time-Current Curves



Temperature Derating Curve



Part Numbering System

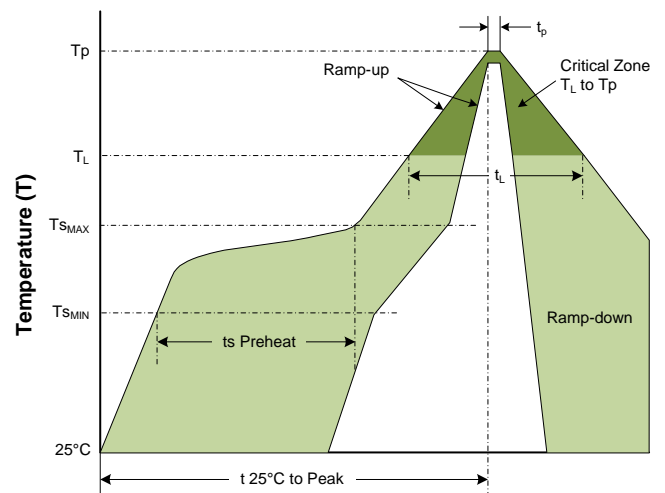


Order Information

Device	Quantity	Reel Size
1206BC Series	3000 pcs	7 Inch (178.0mm)

Soldering Parameters

Profile Feature	Lead-Free Assembly
Average Ramp-up Rate ($T_{S_{MAX}}$ to T_p) Average Ramp-down Rate (T_p to T_L)	3°C/second max. 6°C/second max.
Preheat • Temperature Min ($T_{S_{MIN}}$) • Temperature Max ($T_{S_{MAX}}$) • Time (t_s Preheat)	150°C 200°C 60-180 seconds
Time maintained above: • Temperature (T_L) • Time (t_L)	217°C 60-150 seconds
Peak/Classification Temperature • Temperature (T_p)	260 ^{+0/-5} °C
Time within 5°C of actual Peak Time (t_p)	20-40 seconds
Time 25°C to peak Temperature	8 minutes max
Do not exceed	280 °C



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