

1206 SLO W B L O W S M D F U S E S

SMD 1206 T Series 1A-15A 72V-63VDC/32V-24VDC



Description

Series are the fuses 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.

Electrical Characteristics

Rated Current	1.0In	2.0In	2.5In	3.0In	3.5In	10.0In
1A~3A	4hours mini.	1sec - 60sec	5sec max.	0.1sec - 3sec	-	0.2ms - 20ms
3.5A~5A	4hours mini.	-	5sec max.	0.1sec - 3sec	-	0.2ms - 20ms
7A~15A	4hours mini.				5sec max.	0.2ms - 10ms

Features

- Compatible with reflow and wave solder Ceramic and glass construction
- Excellent environmental integrity
- One time positive disconnect
- Lead free and Halogen free material

Applications

Secondary protection for space constrained applications:

- Cell phone pack
- DVD player Battery
- Hard disk drive
- Digital camera

Specification

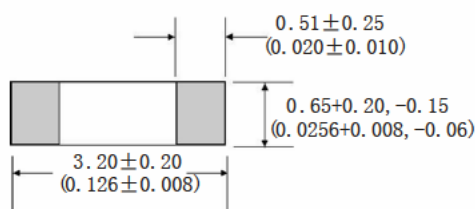
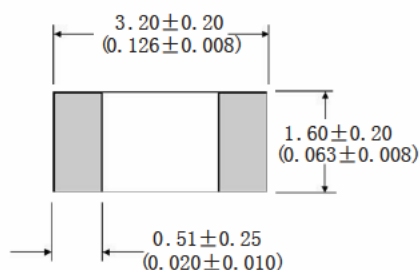
Part No.	Rated Voltage (Vdc)				Rated Current (A)	Breaking Capacity	Typical Cold Resistance (mOh ms) ²	Typical Voltage (mV)	Typical Pre-Arcing I ² t Drop (A ² Sec) ³	Marking
SMD 1206 1A T	72	63	32	24	1	100A@72/63/32Vdc 300A@24Vdc	485	550	0.18	H
SMD 1206 1.5A T					1.5		218	355	0.4	K
SMD 1206 2A T					2		133	310	1.1	N
SMD 1206 2.5A T					2.5		79	230	1.7	O
SMD 1206 3A T					3		49	185	2.2	P
SMD 1206 3.5A T					3.5		37	175	2.7	R
SMD 1206 4A T					4		33	160	3.2	S
SMD 1206 4.5A T					4.5		28	150	4.2	X
SMD 1206 5A T					5		22	135	6	T
SMD 1206 6A T					6		15.5	140	12	F
SMD 1206 7A T					7		11.5	120	18	J
SMD 1206 8A T					8		8.0	100	18	V
SMD 1206 9A T					10		7.0	90	30	U
SMD 1206 12A T					12		5.9	85	45	W
SMD 1206 15A T					15		3.8	75	33	Y

* D C Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source) D

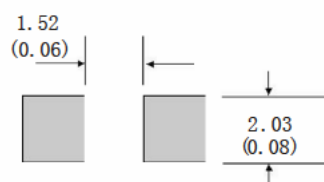
* C Cold Resistance are measured at <10% of rated current in ambient temperature of 25 degrees

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

Dimensions (Unit: mm/inch)



Pad layout (Unit: mm/inch)



1206 SLO W BLOW SMD FUSES

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Soldering Parameters

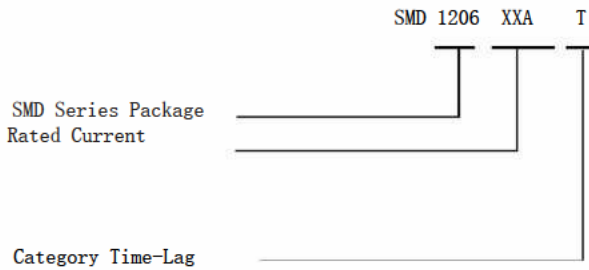
Reflow Conditon		Pb-free assembly
Pre Heat	-Temperature Min ($T_{s(min)}$)	150°C
	-Temperature Max ($T_{s(max)}$)	200°C
	-Time (Min to Max) (t_s)	60 - 180 seconds
Average Ramp-up Rate (Liquidus Temp (T_L) to peak)		5 °C/second max.
TS(max) to TL - Ramp-up Rate		5°C/second max.
Reflow -	Temperature (T_L) (Liquidus)	217°C
	Temperature (t_L)	60 - 150 seconds
Peak Temperature (T_P)		+0/-5°C
Time within 3°C of actual peak Temperature (t_P)		20 - 40 seconds
Ramp-down Rate		5° C/second max
Time 25° C to peak Temperature (T P) Do not exceed		8 minutes max. 260° C

Wave Soldering	260° C, 10 seconds max.
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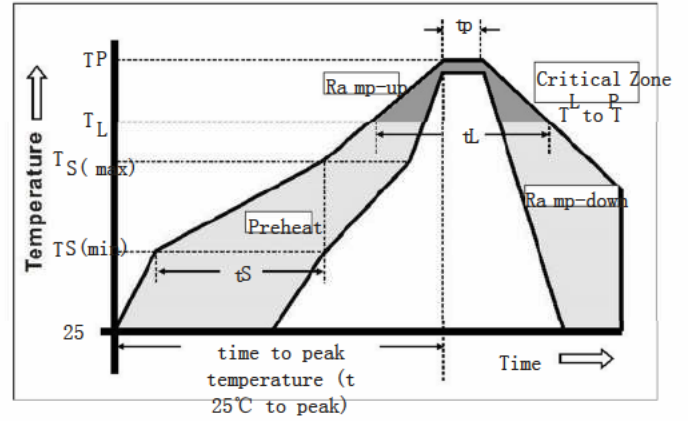
Product Characteristics

Materials	Body: Advanced High Temperature Substrate Terminators: 100% Tin over Nickel over Copper Element Cover Coat: Conformal Coating
Operatng Temperature	Consult temperature rating curve chart
Thermal Shock	Withstands 5 cycles of -55° C to 125° C
Humidity	MIL-STD-202F, Method 103B, Condition D
Vibraton	Per MIL-STD-202F, Method 201A
Insulation Resistance (Afer Opening)	Greater than 10,000 ohms
Resistance to Soldering Heat	MIL-STD-202G, Method 210F, Condition D

Part Numbering System

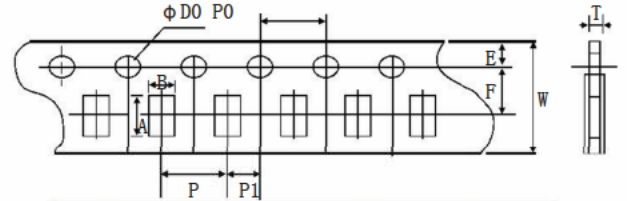


Temperature



Packaging

3,000 pieces of fuses in paper taper and reeled on a 178mm (7 inch) reel



Type	A	B	W	F	E
Spec	3.50±0.20	1.90±0.20	8.00±0.20	3.50	
	±0.05	1.75±0.10			

(Unit: mm)

Spec	4.00±0.10	4.00±0.10	2.00±0.05	1.50	
	±0.10	0.75±0.10			

Time CurrentCurve

