

1206TD Series



### Description

1206TD 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	10.0ln
0.63A~3A	4 hour min.	1sec – 60sec	5 sec max.	0.1sec – 3sec	-	0.2ms – 20ms
3.5~5A	4 hour min.	-	5 sec max.	0.1sec – 3sec	-	0.2ms – 20ms
6A~30A	4 hour min.	-	-	-	5 sec max.	0.2ms – 10ms

### 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

### Specifications

Specification												
Part No.	Rated		Rated Current	Breaking Capacity (A) <sup>1</sup>	Typical Cold. Resistance (mOhms) <sup>2</sup>	Typical Voltage Drop (mV)	Typical Pre- Arcing I <sup>2</sup> t (A <sup>2</sup> Sec) <sup>3</sup>	Alpha Mark				
	Voltage		(A)									
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1206TD630mA			0.63	50A	1080	950	0.009	В				
1206TD750mA			0.75	50A	850	900	0.01	0.75				
1206TD1A			1	50A	480	510	0.11	Н				
1206TD1.25A	72V 63V	∕ 63V	1.25	50A	330	500	0.15	Н				
1206TD1.5A			63V	63V	72V 63V	2)/ 62)/	1.5	50A	230	367	0.17	K
1206TD2A						2	50A	140	316	0.41	Ν	
1206TD2.5A			2.5	50A	80	240	0.68	0				
1206TD3A			3	50A	50	187	1.5	Р				
1206TD3.5A			3.5	50A	38	180	2	R				
1206TD4A			4	50A	34	173	2.5	S				
1206TD4.5A	32V/45V <sup>5</sup>	4.5	50A@32Vdc 50A@45Vdc <sup>5</sup>	25	164	2.65	Х					
1206TD5A		5	50A@32Vdc	21.5	145	4	Т					



## 1206TD Series

	ROHS	Pb	
E302100	COMPLIANT	Pb-Free	

			50A@45Vdc⁵				
1206TD6A		6	50A@32Vdc 50A@45Vdc <sup>5</sup>	16	140	12	F
1206TD7A		7	50A@32Vdc 50A@45Vdc⁵	12.3	130	14	7
1206TD8A		8	300A@24V 150A@32V <sup>4</sup>	10	123	16	М
1206TD10A		10	300A@24V 150A@32V <sup>4</sup>	7	110	22	U
1206TD12A	24V 32V	12	300A@24V 150A@32V <sup>4</sup>	5	85	11.5	12
1206TD15A		15	300A@24V 150A@32V <sup>4</sup>	3.5	78	16.5	15
1206TD20A		20	300A@24V 150A@32V <sup>4</sup>	3.4	80	50	Q

1. DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

2. DC Cold Resistance are measured at <10% of rated current in ambient temperature of  $25^{\circ}$ C

3. Typical Pre-arcing I<sup>2</sup>t are measured at 10In Current

Choice fuse for surge application (USB charger etc.), make sure the l<sup>2</sup>t of fuse is 4 times than surge.

- 4 Internal qualification for 8-30A @ 32Vdc, UL Approval is pending.
- 5. Internal qualification for 4.5A-7A @ 45Vdc, UL Approval is pending.

### Dimension

Drawing not to scale (Unit: mm)

Top view



#### Side view



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Rev.: May., 2017





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US

E302100

HALOGEN HEF FREE

## Soldering method

- Wave solder
  - Reservoir temperature: 260°C
  - Time in reservoir: 10 seconds maximum
- Infrared reflow
  - Temperature: 260°C
  - Time: 30 seconds maximum

### Solder reflow profile





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### **Temperature Derating Curve**

Normal ambient temperature: 23+/-3°C

Operating temperature: -55 ~ 125°C, with proper correction factor applied



### Package

3000 fuses on 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481.

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单击下面可查看定价,库存,交付和生命周期等信息

>>KINGWAHOO(金华)