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MCCFB1206TFF/375

ΕN

This Datasheet is presented by the manufacturer

DE

Dieses Datenblatt wird vom Hersteller bereitgestellt

FR

Cette fiche technique est présentée par le fabricant



RoHS Compliant

Description

The SMD fuses stand out due to their ultra-small size and excellent electrical performance, reliability and quality. The solder-free design provides outstanding on-off and temperature cycling characteristics during operation and also makes our SMD fuses more heat and shock tolerant than typical subminiature fuses.

Applications

Industrial products such as cellphones, DVD players, battery packs, hard disk drives and digital cameras.

Features

- · AEC-Q200 automotive grade certified
- · Compatible with reflow and wave soldering
- Ceramic and glass construction
- Excellent environmental integrity
- · One time positive disconnect
- · Lead-free and Halogen-free
- Designed to UL 248-14

Specifications

Operating Temperature : -55°C to +125°C Storage Conditions : +10°C to +60°C

Relative Humidity : ≤ 75% yearly average without dew, maximum 30 days at 95%

Vibration Resistance : 24 cycles at 15 min. each

10-60Hz at 0.75mm amplitude 60-2000Hz at 10g acceleration

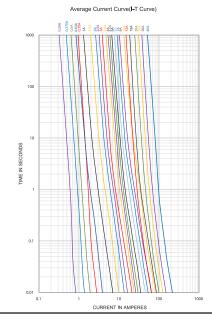
Electrical Characteristics

Time vs Current Characteristics Table

(measured with constant current power supply)

Time vs Current Characteristics						
Rated current 100% 250% 350%						
0.25A to 5A	>4h	<5s	-			
6A to 20A	>4h	-	<5s			

Average Time Current (I-T) Curves





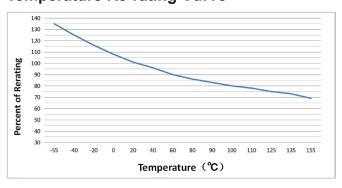


Electrical Characteristics at 25°C

Amp Code	Rated Current	Rated Voltage DC	Typical Voltage Drop (mV)	Breaking Capacity	Typical Melting I ² T (A ² s)	Typical Cold Resistance (mΩ)	Alpha Mark	
0250	0.25A		1400		0.00043	3500	.25	
0375	0.375A		715		0.00083	1750	E	
0500	0.5A		648		0.0025	1000	0.5	
0750	0.75A	72VDC	605	50A@72V DC	0.0058	540	.75	
1100	1A	63VDC	515	50A@72V DC 50A@63V DC	0.13	465	Н	
1150	1.5A	32VDC	365	50A@32V DCC	0.16	215	K	
1200	2A	24VDC	315	315 300A@22	300A@24V DC	0.42	120	N
1250	2.5A		242	242	0.66	75	0	
1300	3A		185		1.41	48	Р	
1400	4A		175		1.75	33	S	
1500	5.00A	32VDC	143	50A@32V DC	2.92	20	Т	
1700	7.00A	24VDC	141	300A@24V DC	12.7	11.75	7	
1800	8.00A		112		14.5	8.25	М	
2100	10.00A		105		20.5	6.50	U	
2120	12.00A	32VDC 24VDC	88	150A@32V DC 300A@24V DC	11.6	5.00	12	
2150	15.00A	2.700	80	000,166247 00	16.8	3.65	15	
2200	20.00A		65		47.8	1.75	20	

- 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°C
- 3. Typical Pre-arcing I2t are measured at 10In Current

Temperature Re-rating Curve



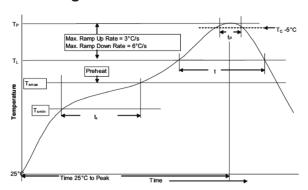
Normal ambient temperature : 23 ±3°C

Operating temperature : -55°C ~ +150°C, with proper correction factor applied



multicomp PRO

Soldering Parameters



Profile Featu	ire	Pb-Free Assembly		
Average Ra	mp-UP Rate(Tsmax to Tp)	3°C/s Max.		
	Temperature Min (Ts min)	150°C		
Preheat	Temperature Max (Ts max)	200°C		
	Time (Tsmin to Ts max)	60sec to 120sec		
Liquidous te Time at liqui	mperature(TL) dous(tL)	217°C 60 to 150S		
Peak packa	ge body temperature (Tp)	260°C		
	hin 5°C of the specified n temperature (Tc)	30S		
Average ran	np-down rate (Tp to Tsmax)	6°C/s Max.		
Time (25°C	to Peak Temperature)	8 Minutes Max.		

1. Infrared Reflow:

Temperature: 260°C

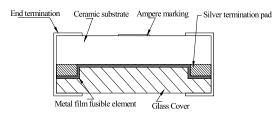
Time: 5S

Recommend reflow profile

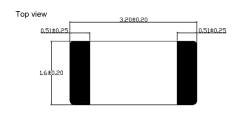
2. Wave Soldering:

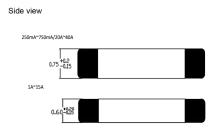
Reservoir Temperature: 260°C Time in Reservoir: 10sec Max.

Mechanical Specifications

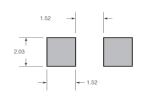


Diagram





Recommended Land Pattern

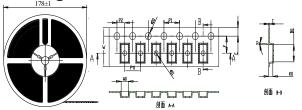


Dimensions : Millimetres





Packing Information



1A to 15A

P2	P0×10	t	A0	В0	K0	
2 ±0.05	40 ±0.2	0.25 ±0.05	1.85 ±0.1	3.56 ±0.1	1.04 ±0.1	

	W	E	F	D0	D1	P0	P1
Γ	8 ±0.2	1.75 ±0.1	3.5 ±0.05	1.5 +0.1/-0	1 ±0.1	4 ±0.05	4 ±0.01

0.25A to 0.75A & 20A to 40A

w	E	F	D0	D1	P0	P1	P2	P0×10	t	A0	В0	K0
8 ±0.2	1.75 ±0.1	3.5 ±0.05	1.5 +0.1/-0	1 ±0.1	4 ±0.05	4 ±0.01	2 ±0.05	40 ±0.2	0.25 ±0.05	1.85 ±0.1	3.56 ±0.1	1.27 ±0.1

Part Number Table

Description	Part Number
SMD Fuse, Fast-Acting, 0.25A, 32V DC, 1206	MCCFB1206TFF/250
SMD Fuse, Fast-Acting, 0.375A, 32V DC, 1206	MCCFB1206TFF/375
SMD Fuse, Fast-Acting, 0.5A, 32V DC, 1206	MCCFB1206TFF/500
SMD Fuse, Fast-Acting, 0.5A, 72V DC, 1206	MP001605
SMD Fuse, Fast-Acting, 0.75A, 32V DC, 1206	MCCFB1206TFF/750
SMD Fuse, Fast-Acting, 1A, 32V DC, 1206	MCCFB1206TFF/1
SMD Fuse, Fast-Acting, 1A, 72V DC, 1206	MP001599
SMD Fuse, Fast-Acting, 1.5A, 32V DC, 1206	MCCFB1206TFF/1.5
SMD Fuse, Fast-Acting, 1.5A, 72V DC, 1206	MP001600
SMD Fuse, Fast-Acting, 2A, 32V DC, 1206	MCCFB1206TFF/2
SMD Fuse, Fast-Acting, 2.5A, 32V DC, 1206	MCCFB1206TFF/2.5
SMD Fuse, Fast-Acting, 2.5A, 72V DC, 1206	MP001601
SMD Fuse, Fast-Acting, 3A, 32V DC, 1206	MCCFB1206TFF/3
SMD Fuse, Fast-Acting, 4A, 32V DC, 1206	MCCFB1206TFF/4
SMD Fuse, Fast-Acting, 5A, 32V DC, 1206	MP001602
SMD Fuse, Fast-Acting, 7A, 32V DC, 1206	MCCFB1206TFF/7
SMD Fuse, Fast-Acting, 8A, 32V DC, 1206	MCCFB1206TFF/8
SMD Fuse, Fast-Acting, 10A, 32V DC, 1206	MCCFB1206TFF/10
SMD Fuse, Fast-Acting, 12A, 32V DC, 1206	MCCFB1206TFF/12
SMD Fuse, Fast-Acting, 15A, 32V DC, 1206	MCCFB1206TFF/15
SMD Fuse, Fast-Acting, 20A, 32V DC, 1206	MCCFB1206TFF/20

Dimensions : Millimetres

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