

RoHS Compliant



#### **Applications**

All high-density boards

#### **Features**

- Small surface mountable
- Solid state
- · Faster time to trip than standard SMD devices
- · Lower resistance than standard SMD devices

	Hold	Trip	Rated	Max Current	Typical	Max Time to Trip		Resistance	
Part Number	Current	Current	Voltage		Power	Current	Time	RMIN	R1MAX
	Ін, А	lτ, Α	V <sub>MAX</sub> , V DC	IMAX, A	Pd, W	Amp	Sec	Ohms	Ohms
MP008918	0.10	0.60	16	40	1.0	2.50	1.50	1.00	12.00
MP008919	0.10	0.35	30	10	0.8	1.00	0.10	1.10	10.00
MP008920	0.16	0.80	30	80	0.9	8.00	0.10	0.70	6.00
MP008921	0.20	0.50	30	10	0.9	8.00	0.10	0.60	4.50
MP008922	0.35	0.95	16	80	1.0	3.50	0.20	0.20	1.60
MP008923	0.10	0.35	30	10	0.9	1.00	0.50	1.20	11.00
MP008924	0.20	0.50	30	10	0.9	8.00	0.10	0.80	5.00
MP008925	0.50	1.50	6	10	1.1	8.00	0.05	0.19	0.90
MP008926	1.10	2.20	6	40	1.2	8.00	1.00	0.05	0.43
MP008927	1.10	2.20	16	50	2.0	8.00	2.00	0.09	0.41

IH=Hold current-maximum current at which the device will not trip at 23°C still air.

IT=Trip current-minimum current at which the device will always trip at 23°C still air.

V MAX=Maximum voltage device can withstand without damage at it rated current.(I MAX)

I MAX= Maximum fault current device can withstand without damage at rated voltage (V MAX).

Pd=Typical power dissipated-type amount of power dissipated by the device when in the tripped state in 23°C still air environment.

RMIN=Minimum device resistance at 23°C prior to tripping.

R1<sub>MAX</sub>=Maximum device resistance at 23°C measured 1 hour after tripping or reflow soldering of 260°C for 20 seconds.

Termination pad characteristics

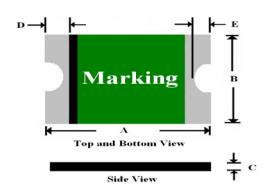
Termination pad materials: Pure Tin

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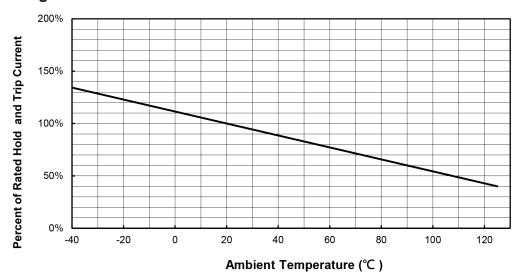
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#### **Product Dimensions**



Part Number	Α		В		С		D		E	
	Min	Max								
MP008918	2.00	2.30	1.20	1.50	0.40	0.80	0.20	0.60	0.10	0.45
MP008919	3.00	3.50	1.50	1.80	0.30	1.20	0.10	0.75	0.10	0.45
MP008920	3.00	3.50	1.50	1.80	0.30	1.10	0.10	0.75	0.10	0.45
MP008921	3.00	3.50	1.50	1.80	0.30	1.10	0.10	0.75	0.10	0.45
MP008922	3.00	3.50	1.50	1.80	0.30	1.10	0.10	0.75	0.10	0.45
MP008923	3.00	3.43	2.35	2.80	0.30	1.20	0.25	0.75	0.10	0.45
MP008924	3.00	3.43	2.35	2.80	0.30	1.20	0.25	0.75	0.10	0.45
MP008925	3.00	3.43	2.35	2.80	0.30	1.20	0.25	0.75	0.10	0.45
MP008926	4.37	4.73	3.07	3.41	0.25	0.75	0.30	0.95	0.25	0.65
MP008927	6.73	7.98	4.80	5.44	0.30	1.70	0.50	1.20	0.50	0.90

#### **Thermal Derating Curve**



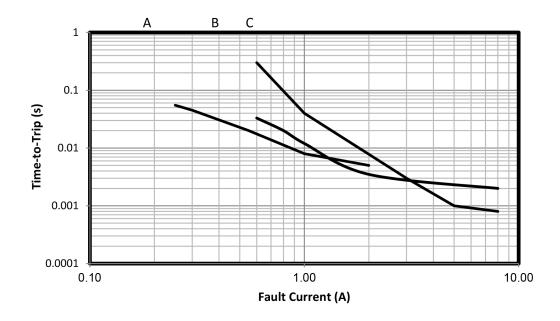
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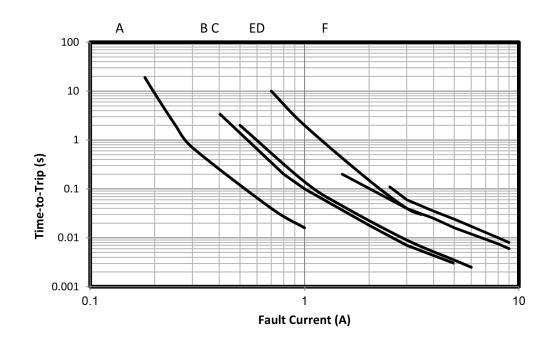
#### Typical Time-To-Trip at 23°C

B = MP008918



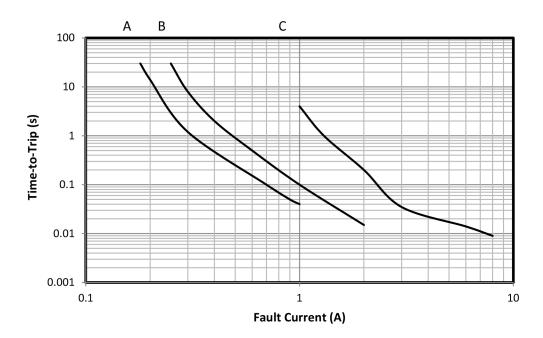
A = MP008919 B = MP008920 C = MP008921

D = MP008922

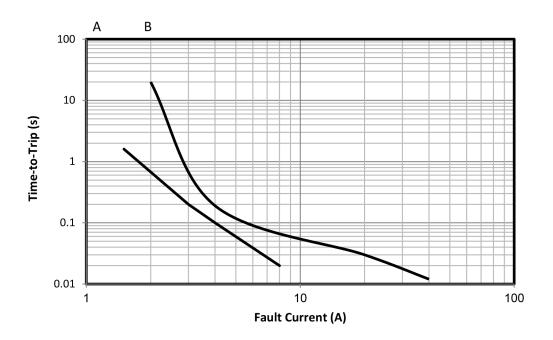


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A = MP008923 B = MP008924 C = MP008925

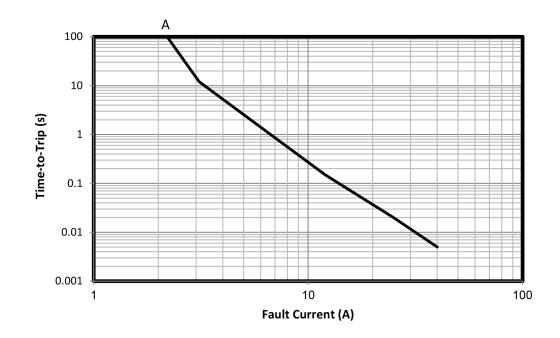


A = MP008925 B = MP008926









#### **Material Specification**

Terminal pad material: Pure Tin

Soldering characteristics: Meets EIA specification RS 186-9E, ANSI/J-std-002 Category 3

Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (Tsmax to Tp)	3°C/second max.
Preheat :	
Temperature Min (Tsmin)	150°C
Temperature Max (Tsmax)	200°C
Time (tsmin to tsmax)	60-180 seconds
Time maintained above:	
Temperature(TL)	217°C
Time (tL)	60-150 seconds
Peak/Classification	260°C
Temperature(Tp):	
Time within 5°C of actual Peak :	
Temperature (tp)	20-40 seconds
Ramp-Down Rate :	6°C/second max.
Time 25°C to Peak Temperature:	8 minutes max.

Note 1: All temperatures refer to of the package, measured on the package body surface.



#### Solder reflow

Due to "Lead Free" nature, Temperature and Dwelling time for the soldering zone is higher than those for Regular. This may cause damage to other components.

- 1. Recommended max past thickness > 0.25mm.
- 2. Devices can be cleaned using standard methods and aqueous solvent.
- 3. Rework use standard industry practices.
- 4. Storage Envorinment: < 30°C / 60%RH

#### Caution:

- 1. If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.
- 2. Devices are not designed to be wave soldered to the bottom side of the board.

#### Part Number Table

Description	Part Number		
Fuse, PTC Resettable, 0805, 0.10A, SMD	MP008918		
Fuse, PTC Resettable, 1206, 0.10A, SMD	MP008919		
Fuse, PTC Resettable, 1206, 0.16A, SMD	MP008920		
Fuse, PTC Resettable, 1206, 0.20A, SMD	MP008921		
Fuse, PTC Resettable, 1206, 0.35A, SMD	MP008922		
Fuse, PTC Resettable, 1210, 0.10A, SMD	MP008923		
Fuse, PTC Resettable, 1210, 0.20A, SMD	MP008924		
Fuse, PTC Resettable, 1210, 0.50A, SMD	MP008925		
Fuse, PTC Resettable, 1.10A, SMD	MP008926		
Fuse, PTC Resettable, 2920, 1.10A, SMD	MP008927		
Fuse, PTC Resettable, 0805, 0.10A, SMD	MP008918		
Fuse, PTC Resettable, 1206, 0.10A, SMD	MP008919		
Fuse, PTC Resettable, 1206, 0.16A, SMD	MP008920		
Fuse, PTC Resettable, 1206, 0.20A, SMD	MP008921		
Fuse, PTC Resettable, 1206, 0.35A, SMD	MP008922		
Fuse, PTC Resettable, 1210, 0.10A, SMD	MP008923		
Fuse, PTC Resettable, 1210, 0.20A, SMD	MP008924		
Fuse, PTC Resettable, 1210, 0.50A, SMD	MP008925		
Fuse, PTC Resettable, 1.10A, SMD	MP008926		
Fuse, PTC Resettable, 2920, 1.10A, SMD	MP008927		

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