## Surface Mountable PTC Resettable Fuse

# multicomp PRO



#### **Specifications:**

Terminal Pad Material Soldering Characteristic

Series PTC Fuse Case External Depth External Length / Height External Width Operating Temperature

### RoHS Compliant

: Pure Tin

: Meets EIA specs. RS 186-9E,

ANSI/J-std-002 Category 3

: FSMD

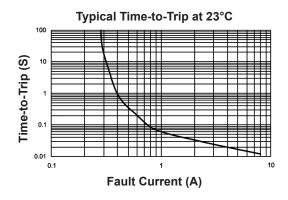
: SMD

: 1.35mm

- : 0.775mm
- : 2.15mm

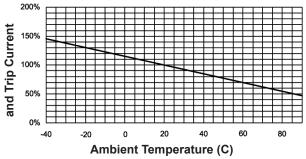
: -40°C to +85°C

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



Percent of Rated Hold

#### **Thermal Derating Curve**



Hold	Trip	Max. Time-to-trip		Rated	Max. Current	Typical	Resistanc	e Tolerance	
Current	Current	Current	Time	Voltage Wax. C	wax. Current	wax. Current	Power	R <sub>MIN</sub>	R1 <sub>MAX</sub>
I <sub>Н</sub> , А	Ι <sub>τ</sub> , Α	A	Sec	V <sub>MAX</sub> , V DC	I <sub>MAX</sub> , A	Pd, W	Ω	Ω	
0.1	0.3	0.5	1.5	15	100	0.5	0.7	6	

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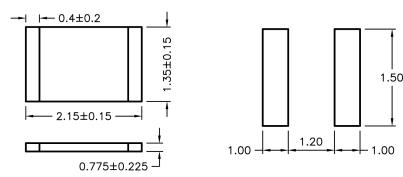


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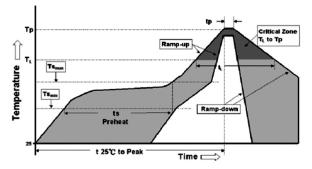
### Dimension

Pad Layout



Dimensions : Millimetres

### **Reflow Profile**



### 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 Environment: < 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, Resettable, SMD, 0.1A	MC33186		

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