# Surface Mountable PTC Resettable Fuse





## **Specifications:**

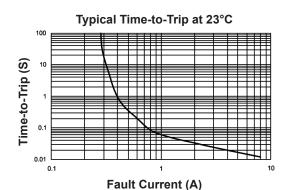
RoHS Compliant

Terminal Pad Material : Pure Tin

Soldering Characteristic : Meets EIA specs. RS 186-9E, ANSI/J-std-002 Category 3

Series : FSMD
PTC Fuse Case : SMD
External Depth : 1.35mm
External Length / Height : 0.775mm
External Width : 2.15mm
Operating Temperature : -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		
Time maintained above: Temperature (TL) Time (tL)	217°C 60-150 seconds		
Peak/Classification Temperature (Tp)	260°C		
Time within 5°C of actual Peak: Temperature (tp)	20-40 seconds		
Ramp-Down Rage:	6°C /second max.		
Time 25°C to Peak Temperature:	8 minute max.		



# Thermal Derating Curve 200% 150% 150% 150% 100% 100% Ambient Temperature (C)

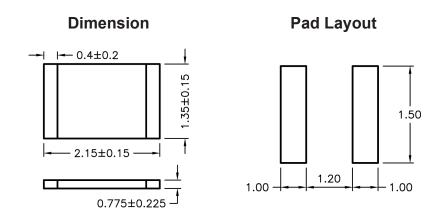
Hold Current	Trip Current	Max. Time-to-trip		Rated Max. Current	Typical	Resistanc	e Tolerance	
		Current	Time	Voltage	Wax. Current	Power	R <sub>MIN</sub>	R1 <sub>MAX</sub>
I <sub>H</sub> , A	I <sub>T</sub> , A	Α	Sec	V <sub>MAX</sub> , V DC	I <sub>MAX</sub> , A	Pd, W	Ω	Ω
0.1	0.3	0.5	1.5	15	100	0.5	0.7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

www.element14.com www.farnell.com www.newark.com



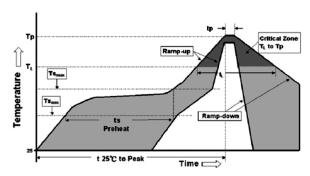
## Surface Mountable PTC Resettable Fuse





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		

Important Notice: This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.

www.element14.com www.farnell.com www.newark.com

