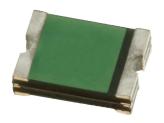
Surface Mountable PTC Resettable Fuse

multicomp PRO





Specifications

Lead Material : Pure Tin

Soldering Characteristic : Meets EIA specs. RS 186-9E,

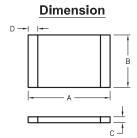
ANSI/J-std-002 Category 2

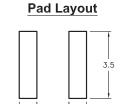
Operating Current : 100mA to 2A

Maximum Voltage : 6V to 60V

Temperature Range : -40°C to 85°C

Profile Feature	Pb-Free Assembly			
Average ramp-Up rate (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 5C of actual Peak Temperature (tp)	20-40 seconds			
Ramp-Down Rate :	6°C/second Max.			
Time 25°C to Peal Temperature :	8 minutes Max.			





Dimensions

Part Number	Α		E	3	(D	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.
MC33187	4.37	4.73	3.07	3.41	0.6	0.9	0.3
MC33188	4.37	4.73	3.07	3.41	0.6	0.9	0.3
MC33190	4.37	4.73	3.07	3.41	0.35	0.65	0.3
MC33193	4.37	4.73	3.07	3.41	0.35	0.65	0.3
MC33196	4.37	4.73	3.07	3.41	0.25	0.55	0.3

Dimensions: Millimetres

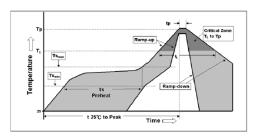
Newark.com/multicomp-pro Farnell.com/multicomp-pro Element14.com/multicomp-pro



Surface Mountable PTC Resettable Fuse



Reflow Profile

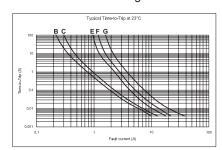


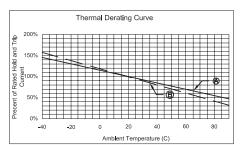
Solder Reflow

- * 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.





Specifications Table

Hold		Rated		Typical	Max. Time-to- Trip		Resistance Tolerance		Time-to-trip	Thermal	
Current	Current	Voltage	Current	power	Current	Time	RMin	R1Max	Curve	Derating Curve option	Part Number
Ін, А	lτ, A	VMax, V DC	IMax, A	Pd, W	Α	Sec	Ω	Ω	Option		
0.14	0.3	60	10	0.8	8	0.008	1.2	6.5	В	В	MC33187
0.2	0.4	30	10	0.8	8	0.02	0.8	5	С	В	MC33188
0.5	1	16	40	0.8	8	0.15	0.15	1	E	В	MC33190
0.75	1.5	16	40	0.8	8	0.2	0.11	0.45	F	А	MC33193
1.1	2.2	8	100	0.8	8	0.3	0.4	0.21	G	Α	MC33196

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