Surface Mountable PTC Resettable Fuse







Specifications

Lead Material : Pure Tin

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

Category 3

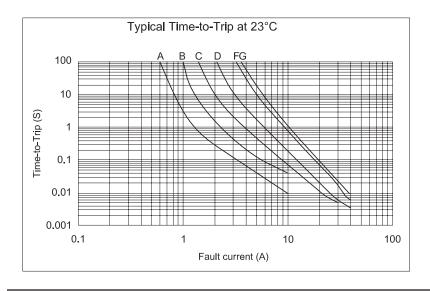
Operating Current : 300mA to 3A

Maximum Voltage : 6V to 60V

Temperature range : -40°C to 85°C

Approval : UL Approved

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 (II) Time	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.				

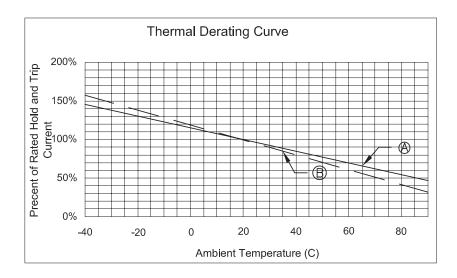


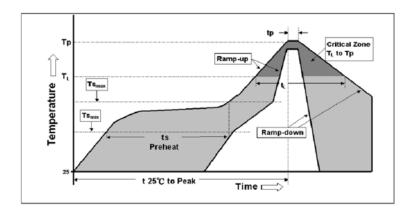
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Solder Reflow

- * 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.

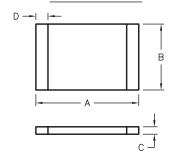
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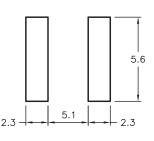
Surface Mountable PTC Resettable Fuse



Dimensions



Pad Layout



Dimensions

Don't Name have	Α		I	3	(D	
Part Number	Min.	Max.	Min.	Max.	Min. Max.		Min.
MC33189	6.73	7.98	4.8	5.44	0.6	1.15	0.35
MC33192	6.73	7.98	4.8	5.44	0.6	1.15	0.35
MC33194	6.73	7.98	4.8	5.44	0.35	1.15	0.35
MC33195	6.73	7.98	4.8	5.44	0.4	1	0.35
MC33197	6.73	7.98	4.8	5.44	0.4	0.9	0.35
MC33198	6.73	7.98	4.8	5.44	0.3	0.9	0.35

Dimensions: Millimetres

Part Number Table

Description	Hold Current C	Trip Current	Rated Voltage	Maximum Current	Typical power	Max. Time-to- Trip		Resistance Tolerance		Time-	Thermal	Dont
						Current	Time	RMIN	R1MAX	to-trip Curve	Derating Curve option	Part Number
	IH, A	IT, A	VMax, V DC	IMax, A	Pd, W	Α	Sec	Ω	Ω	Option		
Fuse, Resettable, SMD, 0.3A	0.3	0.6	60	10	1.5	1.5	3	1	4.8	Option A	Option A	MC33189
Fuse, Resettable, SMD, 0.5A	0.5	1	60	10	1.5	2.5	4	0.3	1.4	Option B	Option A	MC33192
Fuse, Resettable, SMD, 0.75A	0.75	1.5	33	40	1.5	8	0.3	0.18	1	Option C	Option A	MC33194
Fuse, Resettable, SMD, 1.1A	1.1	2.2	33	40	1.5	8	0.5	0.09	0.41	Option D	Option A	MC33195
Fuse, Resettable, SMD, 1.5A	1.5	3	33	40	1.5	8	2	0.05	0.23	Option F	Option B	MC33197
Fuse, Resettable, SMD, 1.85A	1.85	3.7	33	40	1.5	8	2.5	0.04	0.15	Option G	Option B	MC33198

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