



Features

- Fast tripping resettable circuit protection
- Surface mount packaging for automated assembly
- Very low internal resistance
- Patents pending
- 100°C trip temperature
- Agency recognition:

Applications

- Battery cell protection

MF-MSME190 - PTC Resettable Fuses

Electrical Characteristics

Model	V max. Volts	I max. Amps	I _{hold}	I _{trip}	Initial Resistance		Max. Time To Trip		Tripped Power Dissipation
			Amperes at 23°C		Ohms at 23°C		Amperes at 23°C	Seconds at 23°C	Watts at 23°C
			Hold	Trip	Min.	R ₁ Max.	Max.		
MF-MSME190	16	100	1.9	3.8	0.017	0.08	10	2.0	1.5

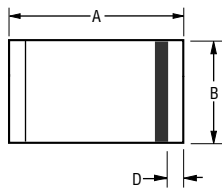
Product Dimensions

Model	A		B		C		D	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
MF-MSME190	11.15 (0.439)	11.51 (0.453)	4.83 (0.190)	5.33 (0.210)	0.33 (0.013)	0.63 (0.025)	0.53 (0.021)	1.02 (0.040)

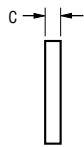
Packaging: 1500 pcs. per reel.

DIMENSIONS = $\frac{\text{MM}}{\text{(INCHES)}}$

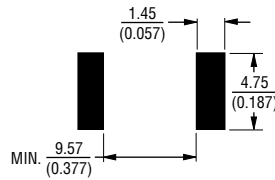
Top and Bottom View



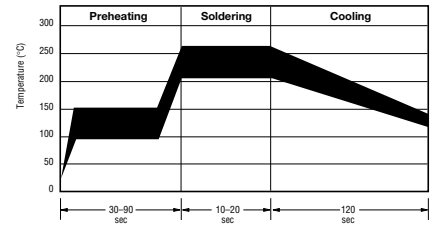
Side View



Recommended Pad Layout



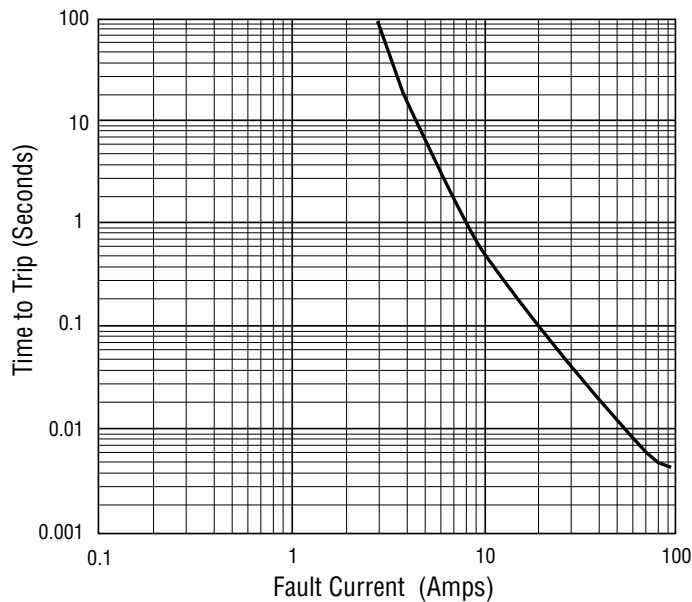
Solder Reflow Recommendations



Note:

- MF-MSME models can be wave soldered and reworked.
- If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Typical Time to Trip at 23°C



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Thermal Derating Chart - I_{hold} (Amps)

Model	Ambient Operating Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
MF-MSME190	3.04	2.7	2.2	1.9	1.44	1.23	1.00	0.78	0.49

How to Order

MF - MSME 190 - 2

Multifuse® Product Designator _____
 Series _____
 MSME = 11.5mm Surface Mount Component
 Hold Current, I_{hold} (1.9 Amps) _____
 Packaging _____
 Packaged per EIA 481-1
 -2 = Tape and Reel

Typical Part Marking

Represents total content. Layout may vary.

