

MF-SM Series - PTC Resettable Fuses

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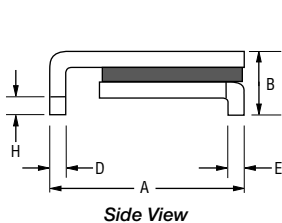
Product Dimensions

Model	A		B	C	D		E		F		G		H
	Min.	Max.	Max.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
MF-SM030	6.73 (0.265)	7.98 (0.314)	3.18 (0.125)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)
MF-SM050	6.73 (0.265)	7.98 (0.314)	3.18 (0.125)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)
MF-SM075	6.73 (0.265)	7.98 (0.314)	3.18 (0.125)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)
MF-SM100	6.73 (0.265)	7.98 (0.314)	3.00 (0.118)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)
MF-SM125	6.73 (0.265)	7.98 (0.314)	3.00 (0.118)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)
MF-SM150	8.00 (0.315)	9.50 (0.374)	3.00 (0.118)	6.71 (0.264)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	3.68 (0.145)	3.94 (0.155)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)
MF-SM200	8.00 (0.315)	9.50 (0.374)	3.00 (0.118)	6.71 (0.264)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	3.68 (0.145)	3.94 (0.155)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)
MF-SM250	8.00 (0.315)	9.50 (0.374)	3.00 (0.118)	6.71 (0.264)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	3.68 (0.145)	3.94 (0.155)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)
MF-SM260	6.73 (0.265)	7.98 (0.314)	3.00 (0.118)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)

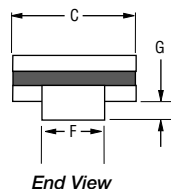
Packaging:

TAPE & REEL: MF-SM030, 050, 075, 100, 125, 260 = 2000 pcs. per reel; MF-SM150, 200, 250 = 1500 pcs. per reel.

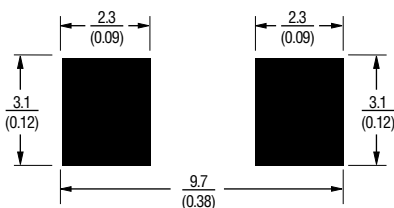
DIMENSIONS = $\frac{\text{MM}}{\text{(INCHES)}}$



Terminal material:
Tin-plated brass

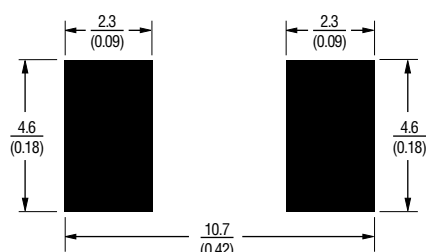


Recommended Pad Layout



MF-SM030, 050, 075, 100, 125, 260

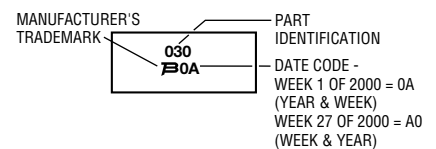
Recommended Pad Layout



MF-SM150, 200, 250

Typical Part Marking

Represents total content. Layout may vary.



How To Order

MF - SM 030 - 2

Multifuse® Product Designator

Series SM = Surface Mount Component

Hold Current, I_{hold} 030-260 (0.30 Amps - 2.60 Amps)

Packaging

Packaged per EIA 481-2

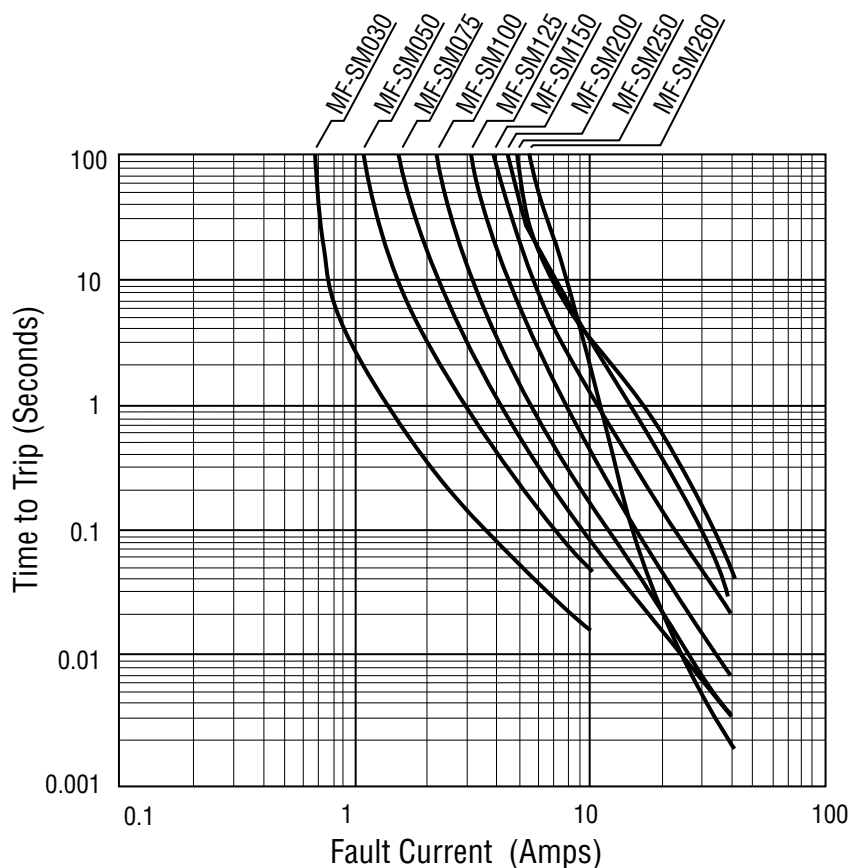
- 2 = Tape and Reel

Specifications are subject to change without notice.

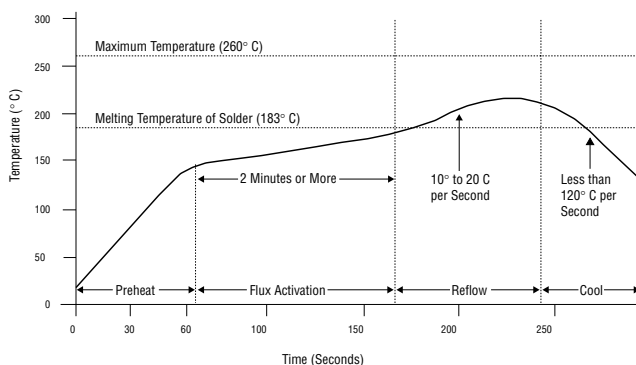
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Typical Time to Trip at 23°C



Solder Reflow Recommendations



Solder reflow

- Recommended reflow methods: IR, vapor phase oven, hot air oven.
- Devices are not designed to be wave soldered to the bottom side of the board.
- Gluing the devices is not recommended.
- Recommended maximum paste thickness is 0.25 mm (.010 inch).
- Devices can be cleaned using standard industry methods and solvents.

Note:

- If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Rework

- A device should not be reworked.

MF-SM Series Tape and Reel Specifications

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Tape Dimension Identifiers	MF-SM030, 050, 075, 100, 125 per EIA-481-2	MF-SM150, 200, 250, 260 per EIA 481-2
W	$\frac{16 \pm 0.3}{(63 \pm .012)}$	$\frac{16 \pm 0.3}{(63 \pm .012)}$
P ₀	$\frac{4.0 \pm 0.10}{(.157 \pm .004)}$	$\frac{4.0 \pm 0.10}{(.157 \pm .004)}$
P ₁	$\frac{8.0 \pm 0.10}{(.315 \pm .004)}$	$\frac{12.0 \pm 0.10}{(.472 \pm .004)}$
P ₂	$\frac{8.0 \pm 0.10}{(.315 \pm .004)}$	$\frac{12.0 \pm 0.10}{(.472 \pm .004)}$
A ₀	$\frac{2.0 \pm 0.10}{(.079 \pm .004)}$	$\frac{2.0 \pm 0.10}{(.079 \pm .004)}$
B ₀	$\frac{5.7 \pm 0.10}{(.224 \pm .004)}$	$\frac{6.9 \pm 0.10}{(.272 \pm .004)}$
B ₁ max.	$\frac{8.1 \pm 0.15}{(.319 \pm .006)}$	$\frac{9.6 \pm 0.10}{(.378 \pm .004)}$
D ₀	$\frac{9.1}{(.358)}$	$\frac{11.0}{(.433)}$
F	$\frac{1.5 \pm 0.1/-0}{(.059 \pm .004/-0)}$	$\frac{1.5 \pm 0.1/-0}{(.059 \pm .004/-0)}$
E ₁	$\frac{7.5 \pm 0.10}{(.295 \pm .004)}$	$\frac{7.5 \pm 0.10}{(.295 \pm .004)}$
E ₂ min.	$\frac{1.75 \pm 0.10}{(.069 \pm .004)}$	$\frac{1.75 \pm 0.10}{(.069 \pm .004)}$
T max.	$\frac{14.25}{(.561)}$	$\frac{14.25}{(.561)}$
T ₁ max.	$\frac{0.4}{(.016)}$	$\frac{0.4}{(.016)}$
K ₀	$\frac{0.1}{(.004)}$	$\frac{0.1}{(.004)}$
Leader min.	$\frac{3.4 \pm 0.15}{(.134 \pm .006)}$	$\frac{3.5 \pm 0.15}{(.138 \pm .006)}$
Trailer min.	$\frac{390}{(15.35)}$	$\frac{390}{(15.35)}$
Reel Dimension Identifiers	$\frac{160}{(6.30)}$	$\frac{160}{(6.30)}$
A max.	$\frac{360}{(14.17)}$	$\frac{360}{(14.17)}$
N min.	$\frac{50}{(1.97)}$	$\frac{50}{(1.97)}$
W ₁	$\frac{16.4 \pm 2.0/-0}{(.65 \pm .079/-0)}$	$\frac{16.4 \pm 2.0/-0}{(.65 \pm .079/-0)}$
W ₂ max.	$\frac{22.4}{(.882)}$	$\frac{22.4}{(.882)}$

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

