




### Features

- Axial/radial leaded
- Fully compatible with current industry standards
- Weldable nickel terminals
- Very low internal resistance
- RoHS compliant\*
- Agency recognition:   



The slotted lead option is currently available but not recommended for new designs.

## MF-LS Series - PTC Resettable Fuses

### Electrical Characteristics

Model	V max. Volts	I max. Amps	I <sub>hold</sub>	I <sub>trip</sub>	Initial Resistance		1 Hour (R <sub>1</sub> ) Post-Trip Resistance	Max. Time to Trip		Tripped Power Dissipation
			Amperes at 23 °C		Ohms at 23 °C		Ohms at 23 °C	Amperes at 23 °C	Seconds at 23 °C	Watts at 23 °C
			Hold	Trip	Min.	Max.	Max.			Typ.
MF-LS100S	24	100	1.0	2.5	0.070	0.130	0.260	5	7.0	1.5
MF-LS180	24	100	1.8	3.8	0.040	0.068	0.120	9	2.9	2.0
MF-LS180L	24	100	1.8	3.8	0.040	0.068	0.120	9	2.9	2.0
MF-LS180S	24	100	1.8	3.8	0.040	0.068	0.120	9	2.9	2.0
MF-LS190	24	100	1.9	4.2	0.030	0.057	0.100	10	3.0	1.9
MF-LS190RU	15	100	1.9	4.2	0.030	0.057	0.100	10	3.0	1.9
MF-LS260	24	100	2.6	5.2	0.025	0.042	0.076	13	5.0	2.3
MF-LS300	24	100	3.0	6.3	0.015	0.031	0.055	15	4.0	2.0
MF-LS340	24	100	3.4	6.8	0.016	0.027	0.050	17	5.0	2.7

NOTE: Slotted option available on all models.

### Environmental Characteristics

Operating/Storage Temperature .....	-40 °C to +85 °C
Maximum Device Surface Temperature	
in Tripped State .....	125 °C
Passive Aging .....	+85 °C, 1000 hours..... ±10 % typical resistance change
Humidity Aging .....	+85 °C, 85% R.H. 7 days..... ±5 % typical resistance change
Vibration .....	MIL-STD-883C..... No change
	Condition A

### Test Procedures And Requirements For Model MF-LS Series

Test	Test Conditions	Accept/Reject Criteria
Visual/Mech .....	Verify dimensions and materials .....	Per MF physical description
Resistance .....	In still air @ 23 °C .....	R <sub>min</sub> ≤ R ≤ R <sub>1max</sub>
Time to Trip .....	At specified current, V <sub>max</sub> , 23 °C .....	T ≤ max. time to trip (seconds)
Hold Current .....	30 min. at I <sub>hold</sub> .....	No trip
Trip Cycle Life .....	V <sub>max</sub> , I <sub>max</sub> , 100 cycles .....	No arcing or burning
Trip Endurance .....	V <sub>max</sub> , 48 hours .....	No arcing or burning

UL File Number ..... E 174545S  
 CSA File Number ..... CA 110338  
 TÜV File Number ..... R2057213

### Thermal Derating Chart - I<sub>hold</sub>/ I<sub>trip</sub> (Amps)

Model	Ambient Operating Temperature								
	-40 °C	-20 °C	0 °C	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C
MF-LS100S	1.80 / 4.50	1.60 / 4.00	1.40 / 3.50	1.00 / 2.50	0.80 / 2.00	0.70 / 1.75	0.60 / 1.50	0.40 / 1.00	0.20 / 0.50
MF-LS180	3.10 / 6.54	2.60 / 5.49	2.20 / 4.64	1.80 / 3.80	1.30 / 2.74	1.10 / 2.32	0.90 / 1.90	0.60 / 1.27	0.20 / 0.42
MF-LS180L	3.10 / 6.54	2.60 / 5.49	2.20 / 4.64	1.80 / 3.80	1.30 / 2.74	1.10 / 2.32	0.90 / 1.90	0.60 / 1.27	0.20 / 0.42
MF-LS180S	3.10 / 6.54	2.60 / 5.49	2.20 / 4.64	1.80 / 3.80	1.30 / 2.74	1.10 / 2.32	0.90 / 1.90	0.60 / 1.27	0.20 / 0.42
MF-LS190	3.30 / 7.29	2.80 / 6.19	2.40 / 5.31	1.90 / 4.20	1.40 / 3.09	1.20 / 2.65	1.10 / 2.43	0.70 / 1.55	0.40 / 0.88
MF-LS190RU	3.30 / 7.29	2.80 / 6.19	2.40 / 5.31	1.90 / 4.20	1.40 / 3.09	1.20 / 2.65	1.10 / 2.43	0.70 / 1.55	0.40 / 0.88
MF-LS260	4.30 / 8.60	3.70 / 7.40	3.10 / 6.20	2.60 / 5.20	1.90 / 3.80	1.60 / 3.20	1.40 / 2.80	1.10 / 2.20	0.60 / 1.20
MF-LS300	5.10 / 10.7	4.40 / 9.24	3.70 / 7.77	3.00 / 6.30	2.30 / 4.83	1.90 / 3.99	1.60 / 3.36	1.20 / 2.52	0.60 / 1.26
MF-LS340	5.50 / 11.0	4.70 / 9.40	4.00 / 8.00	3.40 / 6.80	2.60 / 5.20	2.20 / 4.40	1.90 / 3.80	1.50 / 3.00	0.80 / 1.60

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

## Applications

Any application that requires extra protection at elevated ambient temperatures, which the 100 °C trip temperature provides.

- Rechargeable battery pack protection
- Cellular phones
- Laptop computers

## MF-LS Series - PTC Resettable Fuses

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### Product Dimensions

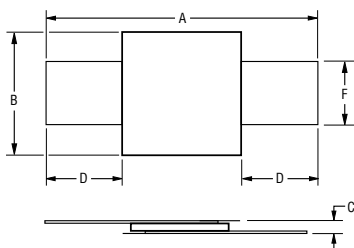
Model	A		B		C		D		F		Pkg. Style
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
MF-LS100S	20.9 (0.823)	23.1 (0.909)	4.9 (0.193)	5.2 (0.205)	0.6 (0.024)	1.0 (0.039)	4.1 (0.161)	5.5 (0.217)	3.8 (0.150)	4.1 (0.161)	S
MF-LS180	24.0 (0.945)	26.0 (1.024)	4.9 (0.193)	5.2 (0.205)	0.6 (0.024)	1.0 (0.039)	4.1 (0.161)	5.5 (0.217)	3.8 (0.150)	4.1 (0.161)	Std.
MF-LS180L	35.0 (1.38)	37.5 (1.48)	4.9 (0.193)	5.6 (0.22)	0.6 (0.024)	1.0 (0.039)	9.6 (0.38)	10.0 (0.40)	3.8 (0.150)	4.2 (0.17)	Std.
MF-LS180S	24.0 (0.945)	26.0 (1.024)	4.9 (0.193)	5.2 (0.205)	0.6 (0.024)	1.0 (0.039)	4.1 (0.161)	5.5 (0.217)	3.8 (0.150)	4.1 (0.161)	S
MF-LS190	21.3 (0.839)	23.4 (0.921)	10.2 (0.402)	11.0 (0.433)	0.5 (0.020)	1.1 (0.043)	5.0 (0.197)	7.6 (0.299)	4.8 (0.189)	5.4 (0.213)	Std.
MF-LS190RU	19.8 (0.780)	20.8 (0.819)	13.3 (0.524)	14.3 (0.563)	0.4 (0.016)	0.76 (0.030)	8.1 (0.319)	9.5 (0.374)	3.8 (0.150)	4.1 (0.161)	RU
MF-LS260	24.0 (0.945)	26.0 (1.024)	10.8 (0.425)	11.9 (0.469)	0.6 (0.024)	1.0 (0.039)	5.0 (0.197)	7.0 (0.276)	5.9 (0.232)	6.1 (0.240)	Std.
MF-LS300	28.4 (1.118)	31.8 (1.252)	13.0 (0.512)	13.5 (0.531)	0.5 (0.020)	1.1 (0.043)	6.3 (0.248)	8.9 (0.350)	6.0 (0.236)	6.6 (0.260)	Std.
MF-LS340	24.0 (0.945)	26.0 (1.024)	14.8 (0.583)	15.9 (0.626)	0.6 (0.024)	1.0 (0.039)	4.0 (0.158)	5.0 (0.197)	6.0 (0.236)	6.1 (0.240)	Std.

Packaging: Bulk - 500 pcs. per bag.  
Tape and Reel - Consult factory.

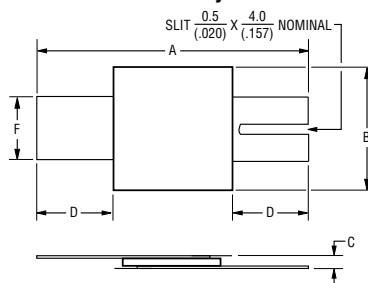
NOTE: Longer lead option available. Consult factory.

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

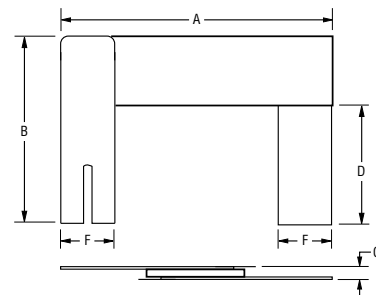
Standard Style



"S" Style



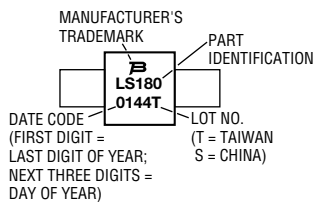
"RU" Style



Terminal material: quarter-hard nickel

### Typical Part Marking

Represents total content. Layout may vary.



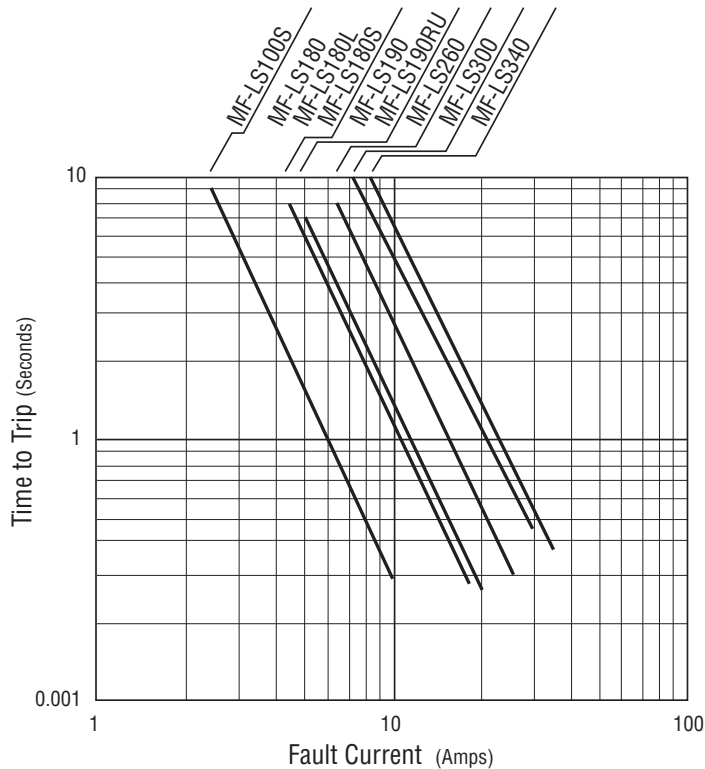
Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Please verify actual device performance in their specific applications.

# MF-LS Series - PTC Resettable Fuses

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## Typical Time to Trip at 23 °C

MF-LS models offer trip temperatures lower than MF-S models for extra protection at elevated temperatures.



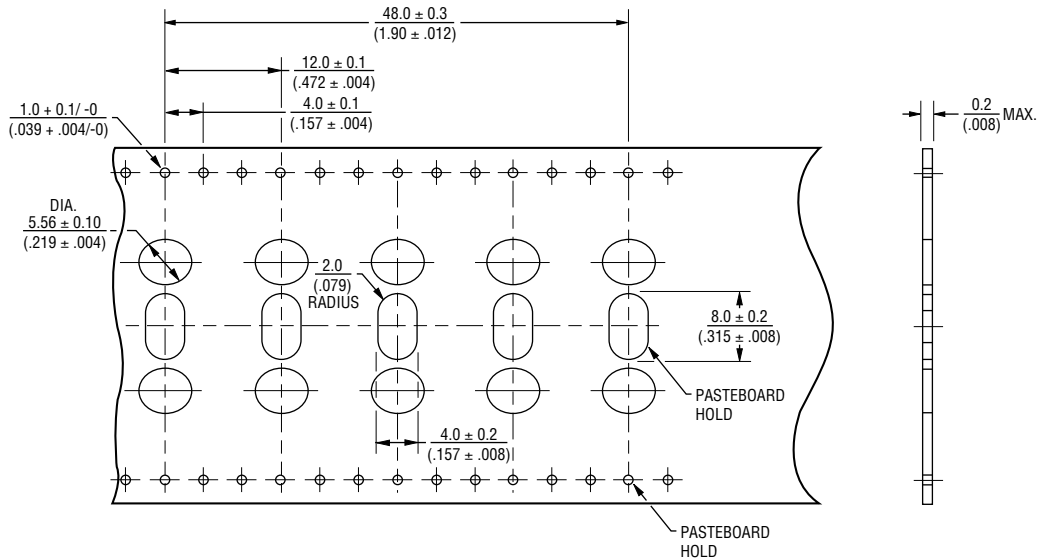
## How to Order

**MF - LS 100 S -**  
 Multifuse® Product Designator \_\_\_\_\_  
 Series \_\_\_\_\_  
 LS = Axial Leaded "Strap" Component  
 Hold Current,  $I_{hold}$  \_\_\_\_\_  
 100-340 (1.0 Amps - 3.40 Amps)  
 Lead Option \_\_\_\_\_  
 S = Slotted Lead Option\*  
 RU = Radial Lead Option  
 Packaging Options \_\_\_\_\_  
 - = Bulk Packaging  
 - 2 = Tape and Reel\*\*

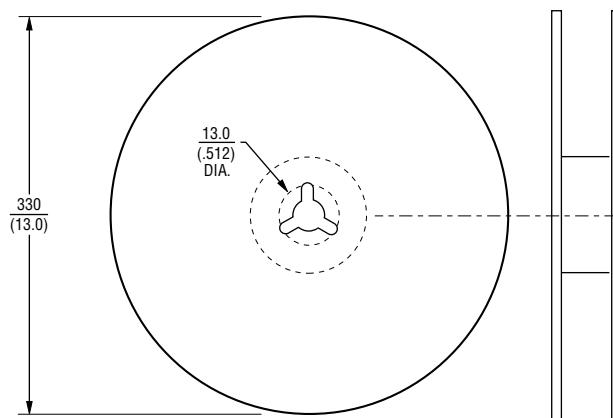
\* Slotted lead option is currently available, but not recommended for new designs.

\*\*Packaged per EIA486-B

**Taped Component Dimensions**



**Reel Dimensions**



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

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单击下面可查看定价，库存，交付和生命周期等信息

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