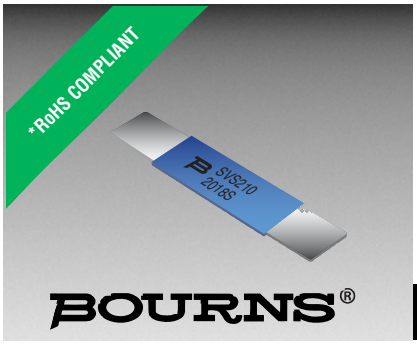


Features

- Industry's lowest internal resistance
- Switches at optimum temperature
- Axial leaded, with flexible design options available
- Fully compatible with current industry standards
- Weldable nickel terminals
- Agency recognition:
- RoHS compliant*

MF-SVS Series - PTC Resettable Fuses

Electrical Characteristics

Model	V max. Volts	I max. Amps	I_{hold}	I_{trip}	Initial Resistance			1 Hour (R_1) 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.	Typ.	Max.			Typ.
MF-SVS170	10	100	1.7	4.1	0.018	0.032	0.023	0.064	8.5	5.0	2.1
MF-SVS175	10	100	1.75	4.2	0.017	0.031	0.022	0.063	8.5	5.0	2.1
MF-SVS210	10	100	2.1	5.0	0.010	0.020	0.016	0.040	10.5	5.0	2.4
MF-SVS230	10	100	2.3	5.2	0.010	0.018	0.014	0.036	12.5	5.0	2.6

Environmental Characteristics

Operating Temperature ..... -40 °C to +85 °C
Storage Conditions ..... +40 °C max. 70 % R.H. max.
Maximum Device Surface Temperature in Tripped State ..... 125 °C
Passive Aging ..... +60 °C, 1000 hours ..... ±10 % typical resistance change
Humidity Aging ..... +60 °C, 85 % R.H. 1000 hours ..... ±10 % typical resistance change
Thermal Shock ..... MIL-STD-202F, Method 107G, +85 °C to -40 °C, 10 times ..... ±5 % typical resistance change
Vibration ..... MIL-STD-883C, Condition A ..... No change

Test Procedures And Requirements For Model MF-SVS Series

Test	Test Conditions	Accept/Reject Criteria
Visual/Mech.	Verify dimensions and materials	Per MF physical description
Resistance	In still air @ 23 °C	Rmin ≤ R ≤ R1max
Time to Trip	At specified current, Vmax, 23 °C	T ≤ max. time to trip (seconds)
Hold Current	30 min. at Ihold	No trip
Trip Cycle Life	Vmax, Imax, 100 cycles	No arcing or burning
Trip Endurance	Vmax, 48 hours	No arcing or burning

UL File Number E174545
http://www.ul.com/ Follow link to Certifications, then UL File No., enter E174545
CSA File Number CA110338
http://directories.csa-international.org/ Under "Certification Record" and "File Number" enter 110338-0-000
TÜV Certificate Number ..... R 02057213
http://www.tuvdotcom.com/ Follow link to "other certificates", enter File No. 2057213

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-SVS170	3.3	2.8	2.3	1.7	1.3	1.0	0.8	0.5	0.1
MF-SVS175	3.4	2.9	2.3	1.75	1.3	1.1	0.8	0.5	0.1
MF-SVS210	3.8	3.3	2.7	2.1	1.6	1.3	1.1	0.8	0.4
MF-SVS230	4.2	3.6	3.0	2.3	1.8	1.4	1.1	0.8	0.4

*I_{trip} is approximately two times I_{hold}.

*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 battery pack application that requires protection with the lowest possible resistance:
  - Rechargeable battery packs; designed for NiMH and Li-Ion chemical characteristics
  - Cellular / cordless phone rechargeable battery packs
  - Laptop computer battery packs

MF-SVS Series - PTC Resettable Fuses

BOURNS®

Product Dimensions

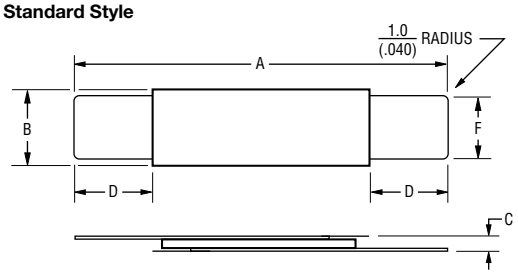
Model	A		B		C		D		F	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
MF-SVS170	16.0 (0.630)	18.0 (0.709)	4.9 (0.193)	5.5 (0.216)	0.6 (0.024)	0.9 (0.035)	4.1 (0.161)	5.8 (0.228)	3.9 (0.154)	4.1 (0.161)
MF-SVS170N	22.0 (0.866)	24.0 (0.945)	3.6 (0.142)	3.9 (0.153)	0.6 (0.024)	0.9 (0.035)	4.1 (0.161)	5.8 (0.228)	2.4 (0.094)	2.6 (0.102)
MF-SVS175	16.0 (0.630)	18.0 (0.709)	4.9 (0.193)	5.5 (0.216)	0.6 (0.024)	0.9 (0.035)	4.1 (0.161)	5.8 (0.228)	3.9 (0.154)	4.1 (0.161)
MF-SVS175N	22.0 (0.866)	24.0 (0.945)	3.6 (0.142)	3.9 (0.153)	0.6 (0.024)	0.9 (0.035)	4.1 (0.161)	5.8 (0.228)	2.4 (0.094)	2.6 (0.102)
MF-SVS175NL	26.0 (1.024)	28.0 (1.102)	3.6 (0.142)	3.9 (0.153)	0.6 (0.024)	0.9 (0.035)	6.1 (0.240)	7.8 (0.307)	2.4 (0.094)	2.6 (0.102)
MF-SVS210	20.9 (0.823)	23.1 (0.909)	4.9 (0.193)	5.5 (0.216)	0.6 (0.024)	0.9 (0.035)	4.1 (0.161)	5.8 (0.228)	3.9 (0.154)	4.1 (0.161)
MF-SVS210N	30.0 (1.181)	32.0 (1.260)	3.6 (0.142)	3.9 (0.153)	0.6 (0.024)	0.9 (0.035)	4.1 (0.161)	5.8 (0.228)	2.4 (0.094)	2.6 (0.102)
MF-SVS230	20.9 (0.823)	23.1 (0.909)	4.9 (0.193)	5.5 (0.216)	0.6 (0.024)	0.9 (0.035)	4.1 (0.161)	5.8 (0.228)	3.9 (0.154)	4.1 (0.161)

Packaging: Bulk - 500 pcs. per bag. Tape and Reel - Consult factory.
Leads: 1/4 Hardened Nickel 0.125 mm (.005 ") nom.

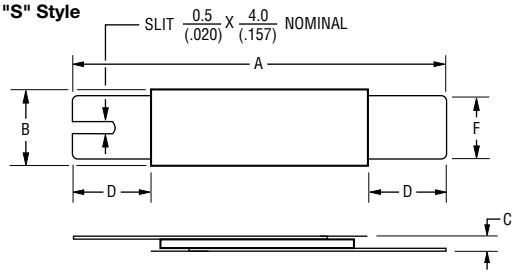
DIMENSIONS: MM / (INCHES)

NOTE: All "S" style models available with 1 or 2 slots. The dimensions and shape of the leads can be modified to suit the battery pack design. All models are available without insulation wrapping.

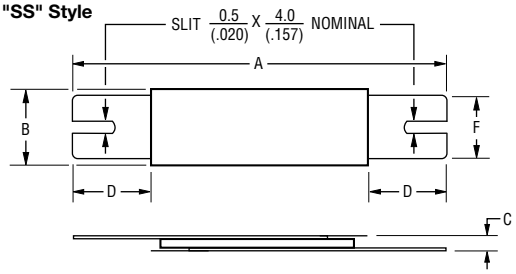
Standard Style



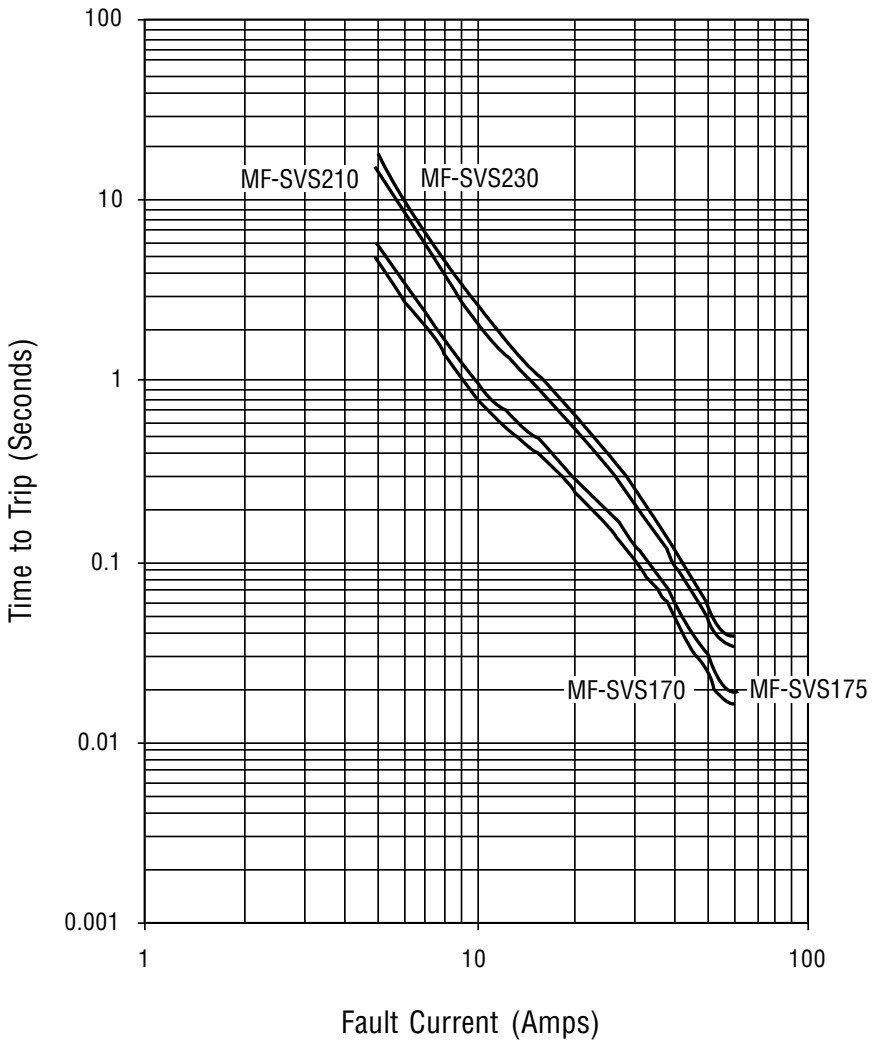
"S" Style



"SS" Style



Typical Time to Trip at 23 ˚C



How to Order

MF - SVS 210 __ __ __ __ - __

Multifuse® Product Designator

Series
SVS = Axial Leaded "Strap" Component

Hold Current, I_{hold}
170-230 (1.70 - 2.30 Amps)

Narrow Device Option
N = Narrow (3.6mm)

Lead Option
S = Slotted Lead Option (one side)
SS = Slotted Lead Option (two sides)

Longer Lead Option
L = Longer Leads

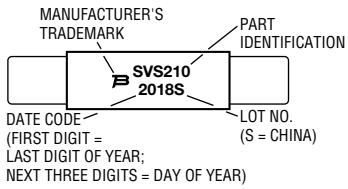
Insulating Option
U = Non-Insulated Option

Packaging Option
-0 = Bulk Packaging
-2 = Tape and Reel* (Consult factory)

*Packaged per EIA 486-B

Typical Part Marking

Represents total content. Layout may vary.



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Наши контакты:

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