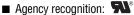
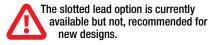


Features

- 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



■ RoHS compliant*



MF-SVS Series - PTC Resettable Fuses

Electrical Characteristics

Model	V max. Volts	I max.	I _{hold}	I _{trip}	Initial Resistance			1 Hour (R ₁) Post-Trip Resistance	Max. Time to Trip		Tripped Power Dissipation
		Amps		eres 3 °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.	Тур.	Max.			Тур.
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, ±5 % typical resistance change +85 °C to -40 °C, 10 times

Vibration MIL-STD-883C, No change Condition A

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
	At specified current, Vmax, 23 °C	
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 Certificat	ions, then UL File No., enter E174545
CSA File Number		,
TÜV Certificate Number	enter 110338-0-000	ler "Certification Record" and "File Number"
	http://www.tuvdotcom.com/ Follow link to "	other certificates", enter File No. 2057213

Thermal Derating Chart - Ihold (Amps)

Model	Ambient Operating Temperature											
	-40 °C	-20 °C	0 ℃	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			

^{*}Itrip is approximately two times Ihold.

^{*}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.

Applications

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

MF-SVS Series - PTC Resettable Fuses

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Product Dimensions

Model	Α		В		С		D		F	
	Min.	Max.								
MF-SVS170	16.0	18.0	4.9	_ 5.5	0.6	0.9	4.1	5.8	3.9	4.1
	(0.630)	(0.709)	(0.193)	(0.216)	(0.024)	(0.035)	(0.161)	(0.228)	(0.154)	(0.161)
MF-SVS170N	22.0	24.0	3.6	3.9	0.6	0.9	4.1	5.8	2.4	2.6
IVIF-3V317UIV	(0.866)	(0.945)	(0.142)	(0.153)	(0.024)	(0.035)	(0.161)	(0.228)	(0.094)	(0.102)
MF-SVS175	16.0	18.0	4.9	5.5	_0.6	0.9	4.1	5.8	3.9	4.1
WII -3 V 3 1 / 3	(0.630)	(0.709)	(0.193)	(0.216)	(0.024)	(0.035)	(0.161)	(0.228)	(0.154)	(0.161)
MF-SVS175N	22.0	24.0	3.6	3.9	0.6	0.9	4.1	5.8	2.4	2.6
MIC-3V3175N	(0.866)	(0.945)	(0.142)	(0.153)	(0.024)	(0.035)	(0.161)	(0.228)	(0.094)	(0.102)
ME CVC475NII	26.0	28.0	3.6	3.9	0.6	0.9	6.1	7.8	2.4	2.6
MF-SVS175NL	(1.024)	(1.102)	(0.142)	(0.153)	(0.024)	(0.035)	(0.240)	(0.307)	(0.094)	(0.102)
MF-SVS210	20.9	23.1	4.9	5.5	0.6	0.9	4.1	5.8	3.9	4.1
	(0.823)	(0.909)	(0.193)	(0.216)	(0.024)	(0.035)	(0.161)	(0.228)	(0.154)	(0.161)
MF-SVS210N	30.0	32.0	3.6	3.9	0.6	0.9	4.1	5.8	2.4	2.6
	(1.181)	(1.260)	(0.142)	(0.153)	(0.024)	(0.035)	(0.161)	(0.228)	(0.094)	(0.102)
MF-SVS230	20.9	23.1	4.9	5.5	0.6	0.9	4.1	5.8	3.9	4.1
IVIF-3 V 3230	(0.823)	(0.909)	(0.193)	(0.216)	(0.024)	(0.035)	(0.161)	(0.228)	(0.154)	(0.161)

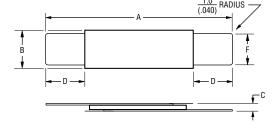
Packaging: Bulk - 500 pcs. per bag. Tape and Reel - Consult factory.

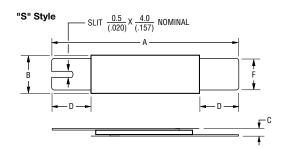
Leads: 1/4 Hardened Nickel 0.125 mm (.005 ") nom.

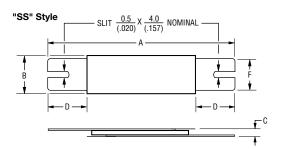
DIMENSIONS: $\frac{MM}{(INCHES)}$

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

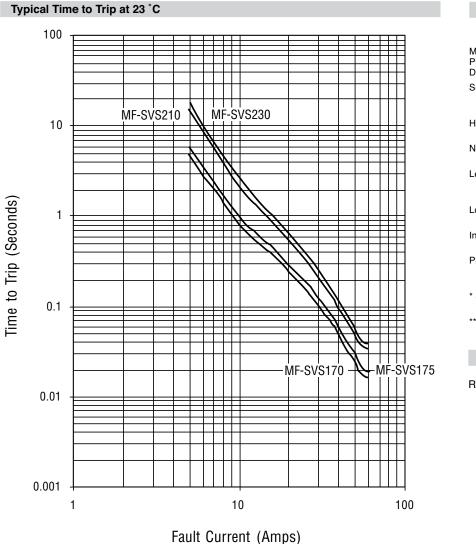






MF-SVS Series - PTC Resettable Fuses

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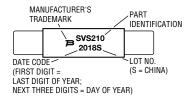
How to Order MF - SVS 210 Multifuse® Product Designator -Series SVS = Axial Leaded "Strap" Component Hold Current, I_{hold} 170-230 (1.70 - 2.30 Amps) Narrow Device Option N = Narrow (3.6mm) Lead Option* S = Slotted Lead Option (one side) SS = Slotted Lead Option (two sides) Longer Lead Option L = Longer Leads Insulating Option U = Non-Insulated Option Packaging Option

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

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

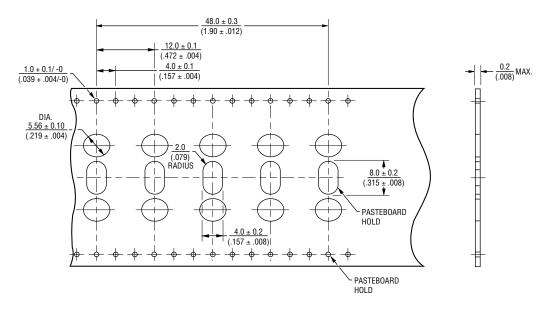
Typical Part Marking

Represents total content. Layout may vary.

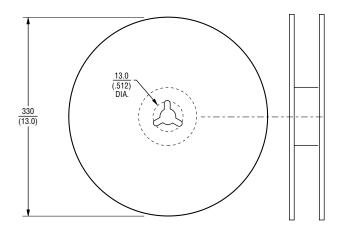


^{**}Packaged per EIA 486-B

Taped Component Dimensions



Reel Dimensions



MM (INCHES) DIMENSIONS: