

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









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. 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.	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 State125 °C

Passive Aging +60 °C, 1000 hours ±10 % typical resistance change Humidity Aging +60 °C, 85 % R.H. 1000 hours ±10 % typical resistance change +85 °C to -40 °C, 10 times

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
	In still air @ 23 °C	
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 Certifica	tions, then UL File No., enter E174545
TÜV Certificate Number		"other certificates", enter File No. 2057213

Thermal Derating Chart - Ihold (Amps)

Model	Ambient Operating Temperature										
	-40 °C	-20 °C	0 ℃	23 ℃	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

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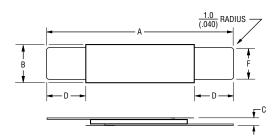
Product Dimensions

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-3V3170IN	(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 V3 175	(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
WII - 3 V 3 1 7 3 N	(0.866)	(0.945)	(0.142)	(0.153)	(0.024)	(0.035)	(0.161)	(0.228)	(0.094)	(0.102)
MF-SVS175NL	26.0	28.0	3.6	3.9	0.6	0.9	6.1	7.8	2.4	2.6
INIT-SVS175INL	(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
	(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.

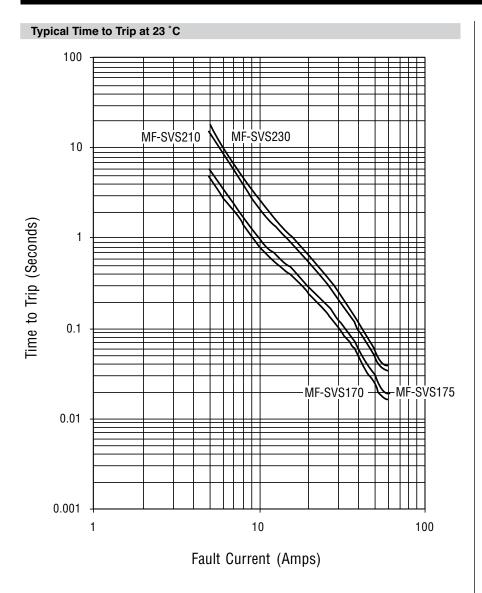
NOTE: The dimensions and shape of the leads can be modified to suit the battery pack design. All models are available without insulation wrapping.

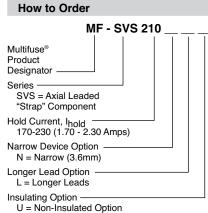


DIMENSIONS: $\frac{MM}{(INCHES)}$

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Typical Part Marking

Represents total content. Layout may vary.

