



SEFUSE SF-R Thermal Fuses

Our new smaller SF-R thermal fuse uses an organic thermosensitive pellet inside a metal case. It features a large current rating of up to 15A/250VAC and has VDE/ UL approvals.

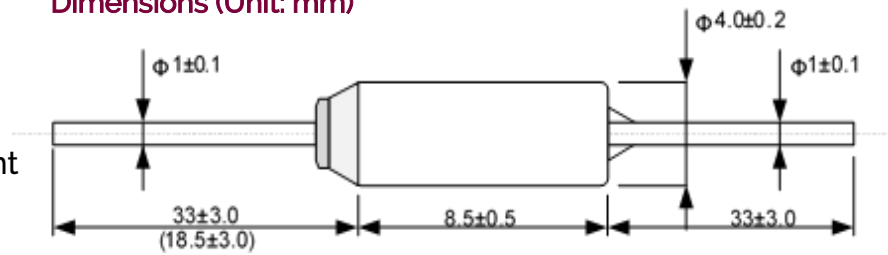
Features

- Quick Response
- 15A/ 250VAC rating
- High Tm Rating
- RoHS and REACH Compliant

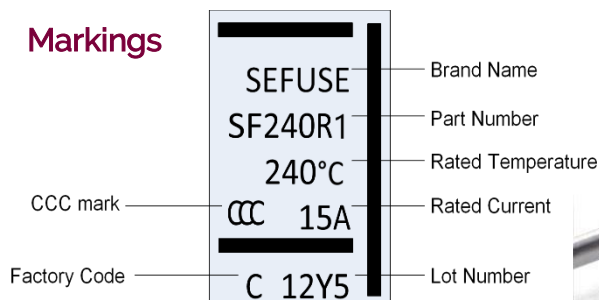
Applications

- Rechargeable Batteries
- Small Appliances
- Personal Appliances

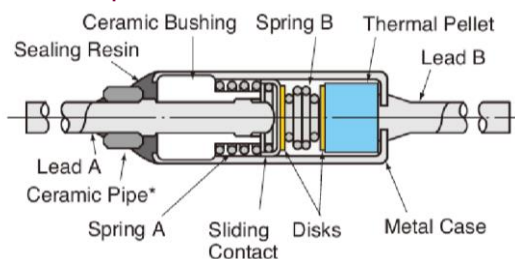
Dimensions (Unit: mm)



Markings

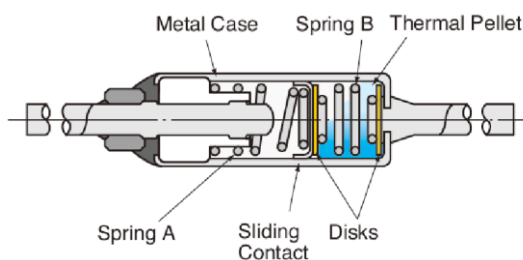


Before Operation



The SF-R thermal fuse contains a sliding contact, springs, and a thermal pellet inside a metal case. When spring B is compressed, contact between lead A and the sliding contact is maintained. At normal temperatures, current flows from lead A to the sliding contact and then through the metal case to lead B.

After Operation



When the ambient temperature rises to the SEFUSE operating temperature, the heat transferred through the metal case melts the thermal pellet. When the thermal pellet melts, spring A and B expand, moving the sliding contact away from lead A. The electrical circuit is opened by breaking contact between the sliding contact and lead A.

For further information please contact us at sales@atcsemitec.co.uk



SEFUSE SF-R Thermal Fuses

*1 Part Number	Rated Functioning Temperature Tf (°C)	Operating Temp (°C)	*2 Holding Temp Th (°C)	*3 Max Temp Limit Tm(°C)	*4 Electrical Ratings	Safety standards			
						UL / cUL	VDE	CCC	PSE
								Thailand made	Thailand Made (JET1974-32001-***)
SF070R1	73	70+/-2	58	165	15A/ 250V AC	E71747	677802 -1171 -0015	20130102 05600209	2001
SF076R1	77	76+0/-4	62						2002
SF081R1	84	81+3/-1	69						2003
SF090R1	94	90+/-2	79						2004
SF094R1	99	94+/-2	84						2005
SF113R1	113	108+/-2	98						2006
SF119R1	121	119+/-2	106						2007
SF129R1	133	129+/-2	118						2008
SF139R1	142	139+/-2	127						2009
SF144R1	144	142+/-2	129						210
SF150R1	152	150+1/-3	137						
SF167R1	167	164+/-2	153	250	375	200	380	2009	
SF184R1	184	182+/-2	174						
SF188R1	192	188+3/-1	177	375	200	380	2009	2009	
SF214R1	216	214+1/-3	200						
SF229R1	229	227+/-2		200	380	2009	2009	2009	2009
SF240R1	240	237+/-2							

*1 Part number indicates thermal fuse with equal 33mm leads. For one short lead, the part number is changed to SF**R0.

*2 Holding temperature is the maximum temperature at which, when applying a rated current to the thermal fuse, the state of conductivity is not changed during specified time not less than 168 hours (1week). The Th rating is only specified by UL.

*3 Maximum temperature limit is the temperature up to which thermal fuses will stay open after tripping and not reconduct.

*4 The electrical rating according to the various safety standards are shown in the following table.

Rated Voltage	UL/cUL	VDE	CCC	PSE *
AC120V	20A (Resistive)			
AC250V	15A (Resistive) 16A (Resistive)	15A	15A	10A 15A

* SF-R is available with 10A and 15A marking for PSE. The 10A marking is applied for Article 1, and 15A marking is applied for Article 2 of the technical requirement of the METI ordinance J60691.

The information in this document is subject to change without notice.

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