

## 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.

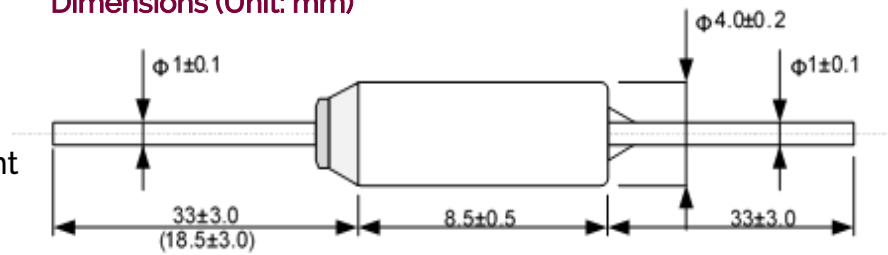
### Features

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

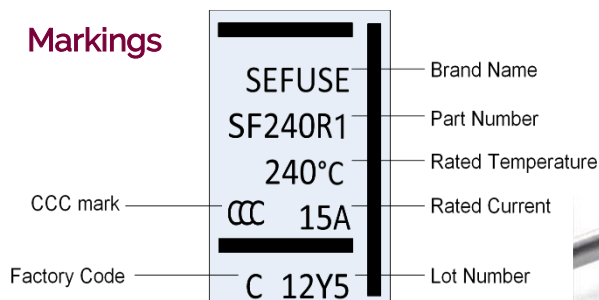
### Applications

- Rechargeable Batteries
- Small Appliances
- Personal Appliances

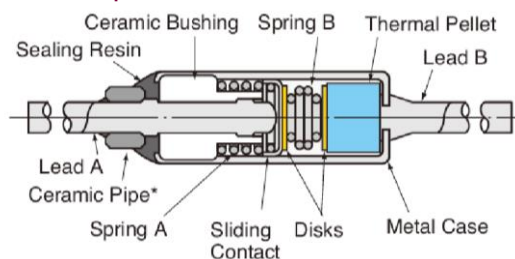
### Dimensions (Unit: mm)



### Markings

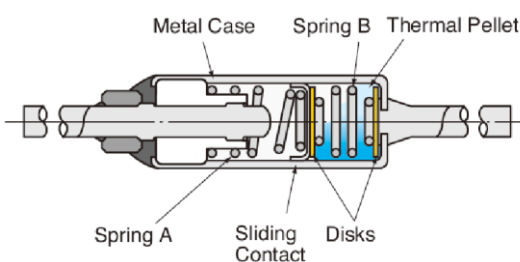


### Before Operation



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](mailto: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					
SF240R1	240	237+/-2	200						

\*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.

For further information please contact us at [sales@atcsemitec.co.uk](mailto:sales@atcsemitec.co.uk)