

# Thin Film Chip Fuses With Fast and Very Fast Acting Performance in 0402, 0603, and 1206 Sizes Provide Protection From 0.315 A to 7 A, With UL 248-14 Compliance and Low Resistance

## Product Benefits:

- Offered in 0402, 0603, and 1206 case sizes
- Fusing speeds at 200 % overload:
  - Fast acting S2F series opens in < 1 min
  - Very fast acting S3F series opens in < 5 s
- UL 248-14 compliant
- Cover rated currents from 0.315 A to 7.0 A
- Low resistance
- Body temperature rise < 75 °C at 100 % rated current
- Lead (Pb)-free, halogen-free, and RoHS-compliant



## Market Applications:

- Secondary circuit protection across a broad range of electronic systems where stability and precision are critical

## The News:

Vishay Intertechnology introduces two new series of thin film chip fuses. The Vishay Sfernice S2F and S3F devices are designed to ensure circuit continuity with minimal resistance and reliable interruption under overload conditions, while providing designers with options for fast or very fast acting protection.

- Both series combine low resistance with body temperature rise below 75 °C at 100 % rated current, ensuring high reliability in compact footprints
- The different fusing speeds of the S2F and S3F series enables designers to tailor fuse performance to the specific protection needs of their applications
  - The S2F series provides protection where brief overloads are tolerable without immediate interruption
  - The S3F series is optimized for sensitive circuits that require the quickest possible response
- By offering a wide current rating range, precise fusing times, and three footprint options, the devices simplify design flexibility while supporting high reliability and competitive pricing

## The Key Specifications:

| Series                                       | S2F              | S3F              |
|--|------------------|------------------|
| Case sizes                                   | 0402, 0603, 1206 |                  |
| Rated current range                          | 0.315 A to 7.0 A | 0.50 A to 7.0 A  |
| Rated voltage                                | 32 V, 50 V, 63 V |                  |
| Fusing time at 200 % rated power             | Within 1 min     | Within 5 s       |
| Body temperature rise at 100 % rated current | < 75 °C          |                  |
| Resistance                                   | 7.5 mΩ to 690 mΩ | 9 mΩ to 527.5 mΩ |



## NEW PRODUCT INFORMATION

**Product Group:** Vishay Sfernice, Thin Film Resistors / **December 2025**



### Availability:

Samples and production quantities of the S2F and S3F series are available now, with lead times of 16 weeks.

To access the product datasheets on the Vishay Website, go to

<http://www.vishay.com/ppg?50087> (S2F)

<http://www.vishay.com/ppg?50088> (S3F)

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