



## DIODES

SS1FL3, SS2FL3, SS1FL4, SS2FL4, SS1FH10, and SS2FH10

### SMD Schottky Barrier Rectifiers in SMF Package Save Space in Automotive and Commercial Applications



#### KEY BENEFITS

- Low profile DO-219AB (SMF) package (typical height of 0.98 mm)
- High current ratings up to 2 A
- Reverse voltages of 30 V, 40 V, and 100 V
- Low forward voltage drops down to 0.31 V at 1 A
- AEC-Q101 qualified
- Maximum operating junction temperature up to +175 °C
- Wave- and reflow-solderable

#### APPLICATIONS

- Automotive and commercial applications: high frequency inverters, DC/DC converters, and freewheeling and polarity protection diodes
- Industrial applications: freewheeling diodes handling inductive loads in relays, valves, and transformers

#### RESOURCES

- Datasheets: see next page for products
- For technical questions contact:  
[DiodesAmerica@vishay.com](mailto:DiodesAmerica@vishay.com), [DiodesAsia@vishay.com](mailto:DiodesAsia@vishay.com), [DiodesEurope@vishay.com](mailto:DiodesEurope@vishay.com)
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)





# DIODES

## SS1FL3, SS2FL3, SS1FL4, SS2FL4, SS1FH10, and SS2FH10

Surface-mount Schottky barrier rectifiers in the low profile SMF (DO-219AB) package provide space-saving alternatives to SMA (DO-214AC) and SOD-123W packages. The SS1FL3, SS2FL3, SS1FL4, SS2FL4, SS1FH10, and SS2FH10 devices provide reverse voltages of 30 V, 40 V, and 100 V, and offer high current ratings up to 2 A for automotive and commercial applications.

- Typical height of 0.98 mm
  - 46 % lower than the conventional SMA package - reducing weight by 23 % and saving 49 % more PCB space
  - 2 % lower than the SOD-123W package, while sharing the same footprint size
- Low forward voltage drops reduce power loss and improve efficiency
- SMF flat-lead package provides improved thermal resistance of 21 °C/W from the junction to the mounting lead compared to the conventional SMA package (thermal resistance of 28 °C/W)

Part Number	I <sub>F</sub> (A)	V <sub>RRM</sub> (V)	V <sub>F</sub> at I <sub>F</sub> (T <sub>A</sub> = 125 °C)		I <sub>FSM</sub> (A)	T <sub>J</sub> max. (°C)	AEQ-101 Qualified
			V <sub>F</sub> (V)	I <sub>F</sub> (A)			
<a href="#">SS1FH10</a>	1	100	0.57	1	40	175	Yes
<a href="#">SS1FL3</a>	1	30	0.31	1	40	150	Yes
<a href="#">SS1FL4</a>	1	40	0.34	1	40	150	Yes
<a href="#">SS2FH10</a>	2	100	0.63	2	50	175	Yes
<a href="#">SS2FL3</a>	2	30	0.37	2	50	150	Yes
<a href="#">SS2FL4</a>	2	40	0.43	2	50	150	Yes