

## Product Overview

### FFSP3065B-F085: Automotive Silicon Carbide (SiC) Schottky Diode, 650 V

For complete documentation, see the data sheet.

Silicon Carbide (SiC) Schottky Diodes use a completely new technology that provides superior switching performance and higher reliability compared to Silicon. No reverse recovery current, temperature independent switching characteristics, and excellent thermal performance sets Silicon Carbide as the next generation of power semiconductor. System benefits include highest efficiency, faster operating frequency, increased power density, reduced EMI, and reduced system size & cost

#### Features

- Max Junction Temperature 175C
- Avalanche Rated 144 mJ
- High Surge Current Capacity
- Positive Temperature Coefficient
- Ease of Paralleling
- No Reverse Recovery / No Forward Recovery
- AEC-Q101 Qualified and PPAP capable

#### Benefits

- $T_j = 175^{\circ}\text{C}$

#### Applications

- Automotive HEV-EV Onboard Chargers
- Automotive HEV-EV DC-DC Converters

#### End Products

- Automotive HEV-EV Onboard Chargers

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Device Grade	Configuration	$V_{RRM}$ (V)	$I_{F(ave)}$ (A)	$V_F$ (Max)	$I_{FSM}$ (A)	$I_R$ (Max) ( $\mu\text{A}$ )	Package Type
FFSP3065B-F085	4.4799	AEC Qualified PPAP Capable Pb-free Halide free	Active	Automotive	Single	650	30	1.7	120	160	TO-220-2

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Created on: 6/25/2021