

## E-SERIES SiC SCHOTTKY DIODES: ENHANCED FOR EXTREME ENVIRONMENTS

With the release of the E-Series SiC Schottky diodes, Wolfspeed sets the standard for the rapidly growing field of on-board and off-board automotive applications and solar power inversion. This family of diodes is specifically designed to be robust and reliable in the harshest environments. As a result, the E-Series diodes are the industry's first 1200V SiC diodes to be automotive qualified and high-humidity/high-voltage/high-temperature tested.

## EXPERIENCE THE BENEFITS OF SiC IN YOUR SOLAR OR AUTOMOTIVE APPLICATION

- High-voltage, high-temperature, and high-humidity resistance enables true outdoor application for solar power conversion and off-board charging
- Qualified to AEC-Q101 for automotive on-board systems
- >98% peak conversion efficiencies have been observed when combined with Wolfspeed SiC MOSFETs
- Significant system size reduction
- Mitigates range anxiety and facilitates faster charging
- Drop-in compatible with Wolfspeed's existing C4D product family



### FEATURES

- AEC-Q101 Qualified and PPAP capable
- HV-H3TRB tested (85°C, 85% RH, 80%  $V_{Br}$ )
- Zero reverse recovery

### APPLICATIONS

- Boost diode in on-board chargers or PV inverters
- Output rectifiers in on-board DC/DC converters
- Free-wheeling diodes in vehicle traction inverters
- Off-board chargers

## E-SERIES LAUNCH FAMILY

Part Number	$V_{RRM}$	$I_{F,Rated}$	Package
EPW4-1200-S005A	1200V	5A	Bare die
EPW4-1200-S008A	1200V	8A	Bare die
EPW4-1200-S010A	1200V	10A	Bare die
EPW4-1200-S015A	1200V	15A	Bare die
EPW4-1200-S020A	1200V	20A	Bare die
E4D05120A	1200V	5A	TO-220-2
E4D10120A	1200V	10A	TO-220-2
E4D15120A	1200V	15A	TO-220-2
E4D20120A	1200V	20A	TO-220-2
Coming Soon	1200V	15A	TO-263-2
Coming Soon	1200V	20A	TO-263-2
Coming Soon	1200V	5A	TO-252-2
Coming Soon	1200V	8A	TO-252-2
Coming Soon	1200V	10A	TO-252-2
Coming Soon	1200V	10A	TO-247-3
Coming Soon	1200V	20A	TO-247-3
Coming Soon	1200V	30A	TO-247-3
Coming Soon	1200V	40A	TO-247-3



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