Wolfspeed 6th Generation (C6D) 650 V SiC Schottky Diode

Wolfspeed new 6th generation (C6D) 650 V SiC Schottky diode family is based on Wolfspeed’s innovative, robust and reliable 150 mm Silicon Carbide (SiC) wafer technology. The latest C6D technology offers lowest forward voltage drop (V_F = 1.27 V @ 25°C) that have a significant impact on the reduction of conduction losses which further enable extremely high system level efficiency and power density in the most demanding power conversion applications such as: Power Factor Correction (PFC) and High Voltage DC/DC Converters.

Low Forward Voltage (V_F) with improved Thermal Stability

Key Features
- Low V_F = 1.27 V (25°C) & 1.37 (175°C)
- Best in class DV_F/DT
- Zero Reverse Recovery
- High Breakdown Voltage
- Low Leakage Current
- Wide range of T_j (-55 °C to 175°C)
- Improved Thermal Stability

Key Benefits
- High System Level Efficiency
- High (NR) Surge Current Capability
- High Frequency Operation
- More Efficient than existing C3D
- Easy Parallel Operation
- Reduced Heat Sink Requirements

Applications
- Server/Telecom
- UPS
- Medical
- Consumer Electronics
- PC
- Solar

Wolfspeed C6D 650 V SiC Schottky Diode Portfolio

<table>
<thead>
<tr>
<th>Part Number</th>
<th>V_{BRM}</th>
<th>IF</th>
<th>V_F (25°C)</th>
<th>Package options</th>
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<td>650V</td>
<td>6A</td>
<td>1.27V</td>
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<td>8A</td>
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