

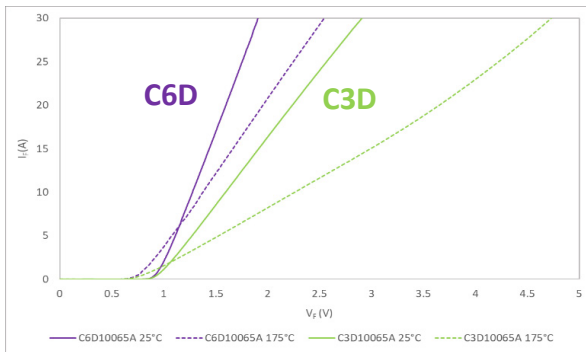
Wolfspeed 6th Generation (C6D) 650 V SiC Schottky Diode

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 ($V_F = 1.27 \text{ V @ } 25^\circ\text{C}$) 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.



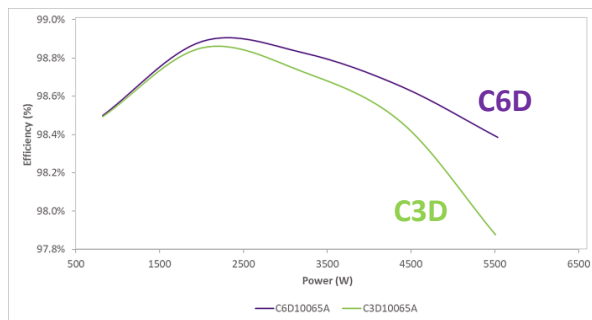
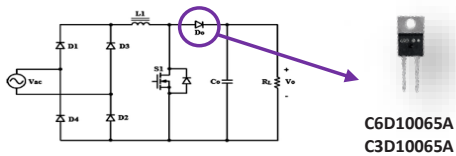
TO-220-2

Low Forward Voltage (V_F) with improved Thermal Stability



Key Features
Low $V_F = 1.27 \text{ V (} 25^\circ\text{C) \& } 1.37 \text{ (} 175^\circ\text{C)}$
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

Improved System Level Efficiency



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

Part Number	V_{RRM}	IF	V_F (25°C)	Package options
C6D06065A	650V	6A	1.27V	TO-220-2
C6D08065A	650V	8A	1.27V	TO-220-2
C6D10065A	650V	10A	1.27V	TO-220-2