

Wolfspeed® Product/Process Change Notification

PCN Number:	CREE-PCN-1343	PCN Issue Date:	November 23, 2021
PCN Type:	Advance		

PCN Title

Manufacturing of Discrete Schottky Diodes on 200-mm Wafers at the Mohawk Valley Fabrication (MVF) Facility

Description of the Change

Wolfspeed’s discrete silicon carbide (SiC) Schottky diodes are currently manufactured on 150-mm wafers at Wolfspeed’s fabrication facilities in RTP and Durham, North Carolina, USA. To increase its production capacity, Wolfspeed will utilize its state-of-the art 200-mm wafer Mohawk Valley Fabrication (MVF) facility in New York.

This is an Advance PCN; final PCNs will be released when data are available, and qualification is complete.

Benefit of the Change

Wolfspeed is in the process of qualifying its MVF facility for 200-mm SiC wafers. The MVF facility will provide substantial capacity expansion and world-class automation to drive throughput and high quality to support its customers for various power applications.

Affected Products

Table 1 lists the discrete SiC Schottky diodes that will be affected by this Advance PCN. The list may be updated, which can be provided by your Wolfspeed contact.

Table 1. Preliminary Affected Products List.

Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
C3D02060A	C3D06060A	C3D10065A	C4D05120A	C4D20120H	C6D10065G
C3D02060E	C3D06060F	C3D10065E	C4D05120E	C4D30120D	C6D16065D
C3D02060F	C3D06060G	C3D10065I	C4D08120A	C4D40120D	C6D20065D
C3D02065E	C3D06065A	C3D12065A	C4D08120E	C6D04065A	CSD01060A
C3D03060A	C3D06065E	C3D16060D	C4D10120A	C6D04065E	CSD01060E
C3D03060E	C3D06065I	C3D16065A	C4D10120D	C6D06065A	E3D08065G
C3D03060F	C3D08060A	C3D16065D	C4D10120E	C6D06065E	E3D20065D
C3D03065E	C3D08060G	C3D16065D1	C4D10120H	C6D06065G	E3D30065D
C3D04060A	C3D08065A	C3D20060D	C4D15120A	C6D08065A	E4D10120A
C3D04060E	C3D08065E	C3D20065D	C4D15120D	C6D08065E	E4D20120A
C3D04060F	C3D08065I	C3D30065D	C4D15120H	C6D08065G	E4D20120D
C3D04065A	C3D10060A	C4D02120A	C4D20120A	C6D10065A	E4D20120G
C3D04065E	C3D10060G	C4D02120E	C4D20120D	C6D10065E	

Qualification Status and Plan

The equipment, processes, and products at the MVF facility are being qualified through Wolfspeed’s standard product introduction process. The customers are urged to provide feedback in writing within 30 days from the PCN issue date. If a customer does not submit written feedback within 30 days, Wolfspeed will consider that its plan is accepted by the customer.

Anticipated Impact

There may be minor changes in fit, form, and/or function due to equipment upgraded for 200-mm wafers. Qualification and characterization activities are being performed to ensure no impact to the products listed in Table 1. The affected part numbers are expected to retain the same datasheets and performance attributes.

Sample Status

Customers are encouraged to submit forward-looking sample requirements within 30 days from the Advance PCN issue date. This information will be used for Wolfspeed planning purposes only. Specific sample order delivery dates will be communicated later.

Key Implementation Date

Table 2 provides the estimated dates for key PCN milestones based on the information available on the date this PCN is issued. Any updates to these dates can be provided by your Wolfspeed contact. Final PCNs will be released when data are available, and qualification is complete.

Table 2. Estimated Key PCN Dates.

Task	Date*
Qualification Report Approval	Beginning July 2022
First Quantity-Limited Sample Shipment	Beginning July 2022
Volume Production Date	Beginning July 2022

* Specific product schedules should be discussed with Wolfspeed sales and marketing representatives.

Customer Acknowledgement

Customer is requested to acknowledge this notification within 30 days from its issue date by signing this Advance PCN, scanning it into a pdf file, and emailing the file and any feedback to Wolfspeed at PCN@wolfspeed.com. Note that Wolfspeed references the JEDEC J-STD-046 guidelines for its PCNs. In accordance with J-STD-046, this change is deemed acceptable to the customer if no acknowledgement is received within 30 days from the Advance PCN issue date.

Name: _____ Title: _____

Phone: _____ Email: _____

Customer Comment: _____

Customer Signature: _____ Date: _____

Contact Information

If you have any questions regarding this advance PCN, please refer to the contact information listed in Table 3.

Table 3. PCN Contact.

Wolfspeed Contact:	Customer Service
Wolfspeed Contact E-Mail:	csorderadmin@wolfspeed.com
Address:	5757 Marcy SUNY Parkway Marcy, NY 13403 U.S.A.

Revision History

Date	Revision	Description
November 23, 2021	0	Initial release