

Wolfspeed® Product/Process Change Notification

PCN Number: PCN-00073

PCN Issue Date: August 18, 2023

PCN Type: Major

PCN Title

Manufacturing of Discrete MOSFETs (Gen 3 1200 V 40 mΩ) on 200-mm Wafers at the Mohawk Valley Fabrication (MVF) Facility

Description of the Change

Wolfspeed's discrete silicon carbide (SiC) MOSFETs 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 add its state-of-the art 200-mm wafer Mohawk Valley Fabrication (MVF) facility in New York and customers may receive materials from either facility after acceptance of the PCN.

Benefit of the Change

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 products affected by this Major PCN.

Table 1. Affected Products List.

Wolfspeed Part Numbers
C3M0040120D
C3M0040120K
C3M0040120J1

Qualification Status and Report

Per request, Wolfspeed will deliver its qualification report associated with this PCN and any requested samples.

Anticipated Impact

There is no impact to form, fit, and/or function due to equipment upgraded for 200-mm wafers. Qualification and characterization activities have been performed to ensure no impact to the products listed in Table 1. The affected part numbers are expected to retain the same datasheets specification limits.

Sample Status

Qualification samples can be made available by request via the Wolfspeed sample store for the part(s) affected by this change, preferably within 30 days from the issue date of this PCN to place any sample orders. Please visit: <https://www.wolfspeed.com/tools-and-support/sample-center/>.

Samples produced at the Mohawk Valley Fabrication facility will be labelled in the store with an appendix of “-MVF” (see the image as an example in Figure 1).

3 matching records found.

#	Part Number	Description
1	C3M0040120D-MVF	1200V 40MOHM SIC MOSFET
2	C3M0040120J1-MVF	1200V 40MOHM SIC MOSFET
3	C3M0040120K-MVF	1200V 40MOHM SIC MOSFET

Previous | 1 | Next

Figure 1. Parts Labeled as They Are Fabricated at the MVF Facility.

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.

Table 2. Estimated Key PCN Dates.

Task	Date
Samples	August 18, 2023
Projected First Ship Date	August 18, 2023

Customer Acknowledgement

Customer is requested to acknowledge this notification within 30 days from its issue date by signing this 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 PCN issue date.

Name: _____ Title: _____

Phone: _____ Email: _____

Customer Comment: _____

Customer Signature: _____ Date: _____

Contact Information

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

Table 3. PCN Contact.

Wolfspeed Contact	Marc Doyle – Customer Program Manager
Wolfspeed Contact E-Mail	Marc.Doyle@wolfspeed.com
Wolfspeed Contact Phone	1.844.200.WOLF
Address	4600 Silicon Drive Durham, NC 27703 U.S.A.

Revision History

Date	Revision	Description
August 18, 2023	0	Initial release