

Wolfspeed® Product/Process Change Notification

PCN Number: PCN-00112
PCN Type: Major

PCN Issue Date: March 18, 2024

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.

Please note that this PCN is a revision to PCN-00073 that was issued previously on August 18, 2023 (please see revision history table below for details).

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

During the PCN period and for some time after, products produced at the Mohawk Valley Fabrication facility will be labelled with the part number and a “-M” suffix. For example: C3M0040120D-M or C3M0040120K-M. The “-M” suffix will be applied to the Wolfspeed part number. Any customer part numbers will remain unchanged.

| | | |
|---|--|--------------|
| © 2021 Wolfspeed, Inc. All rights reserved. Wolfspeed® and the Wolfstreak logo are registered trademarks and the Wolfspeed logo is a trademark of Wolfspeed, Inc. | Title: Manufacturing of Discrete MOSFETs (Gen 3 1200 V 40 mΩ) on 200-mm Wafers at the Mohawk Valley Fabrication (MVF) Facility | |
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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 “-M” (see Table 2 below as an example).

Table 2. Parts Labeled as They Are Fabricated at the MVF Facility.

| Wolfspeed Part Numbers | Description |
|------------------------|-------------------------|
| C3M0040120D-M | 1200 V 40 mΩ SiC MOSFET |
| C3M0040120K-M | 1200 V 40 mΩ SiC MOSFET |
| C3M0040120J1-M | 1200 V 40 mΩ SiC MOSFET |

Implementation Date

Table 3 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 3. 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 4.

Table 4. 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 (PCN-00073) | Initial release |
| March 18, 2024 | 1 (PCN-00112) | Anticipated Impact section of the PCN has been updated to state that <i>products produced at the Mohawk Valley Fabrication facility will be labelled with the part number and a “-M” suffix. In addition, Figure 1. Parts Labeled as They Are Fabricated at the MVF Facility was removed to add Table 2.</i> |