

## Wolfspeed® Product/Process Change Notification

PCN number: PCN-00047

PCN Issue Date: February 7, 2023

PCN Type: Major

### PCN Title

Multi-fab Manufacturing of MOSFET Die 1700 V 20 mΩ Gen3 Utilizing Research Triangle Park (RTP) and Durham (DUR) Facilities

### Description of the Change

Wolfspeed's third-generation 1700 V 20 mΩ Silicon Carbide (SiC) MOSFET Bare Die are currently manufactured on 150-mm wafers at Wolfspeed's fabrication facilities in Research Triangle Park (RTP), North Carolina, USA. The production line is now being expanded to utilize Wolfspeed's capacity at its fabrication facility in Durham (DUR), North Carolina, USA. To meet its delivery commitment to customers in dynamic market conditions, Wolfspeed will utilize the capacity of both facilities for the third-generation product family. In other words, the affected parts can be processed at either facility or transferred between facilities during their fabrication process. Note that all tools of both facilities are nth-of-a-kind (NOAK) tools, namely, same tool set, same process, same process controls, same chart setup, same automation, same interface, etc.

### Benefit of the Change

The qualification of multi-fab manufacturing between RTP and DUR is part of the ongoing efforts undertaken at Wolfspeed to increase loading capacity and enhance manufacturing flexibility. The goal is to ensure Wolfspeed's continued ability to provide quality products that meet and exceed customer expectations.

### Affected Products

Table 1 lists the products affected by this Major PCN. Any new parts introduced after the publication of this PCN will include multi-fab manufacturing.

**Table 1. Affected Products List.**

Wolfspeed Part Number	Description
CPM3-1700-R020E	1700 V, 20 mΩ, 175 °C

### Qualification Status and Report

Per request, Wolfspeed will deliver its qualification report associated with this PCN and any requested samples. Note that all processes are qualified through the internal Process Change Review Board (PCRB). Wolfspeed will assume the approval from its customer if no feedback is received from the customer within 30 days from the date the qualification report is issued.

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	Document #: PCN-00047	Rev: 0
	Issue Date: February 7, 2023	Page: 1 of 3

## Anticipated Impact

There is no change in fit, form, function, or reliability of the discrete MOSFETs. Part number will not change. Customers can continue to place orders using the same part number. Qualification activities have been performed to determine the impact to the products listed in Table 1. The affected part numbers will retain the same datasheets and performance attributes.

## Product Traceability

Wolfspeed maintains its product traceability at the wafer level, including the fabrication location of each process step.

## Sample Status

Qualification samples can be made available by request via the PCN contact (see Table 3) for the part(s) affected by this change, preferably within 30 days from the issue date of this PCN to place any sample orders.

## 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
Qualification Report	February 2023
Samples	February 2023
Projected First Ship Date for Multi-Fab Manufactured Products	February 2023
Last Order Date for Products Fabricated at RTP	February 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.

<b>Wolfspeed Contact</b>	Mingyuan Zhao
<b>Wolfspeed Contact E-Mail</b>	Mingyuan.Zhao@Wolfspeed.com pcn@wolfspeed.com
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<b>Address</b>	4600 Silicon Drive Durham, NC 27703 U.S.A.

## Revision History

Date	Revision	Description
February 7, 2023	0	Initial release