

Wolfspeed® Product/Process Change Notification

PCN Number: PCN-00022
PCN Type: Informational

PCN Issue Date: 7/27/2022

PCN Title

Change How LotId and SlotNumber Are Reported in E142 Maps

Description of the Change

Wolfspeed needs to change the LotId and SlotNumber reported in E142 wafer maps due to integration issues with the recent implementation of SEMI Specification M12-0706 in the wafer ID format for its bare die products (refer to CREE-PCN-1377 for detail). Wolfspeed currently violates the SEMI E142 specification while using M12 wafers for the SlotNumber as it is filled with the 8th and the 9th characters from wafer ID where it shows characters in the SlotNumber. SEMI E142 specification states that SlotNumber needs to have positive integers and identify the slot in the carrier in which the substrate is placed. Therefore, the new generated E142 map will report full wafer ID in the LotId field and “1” in the SlotNumber field for both legacy 9-character wafer ID and M12 wafer ID as it is shown in Figure 1.

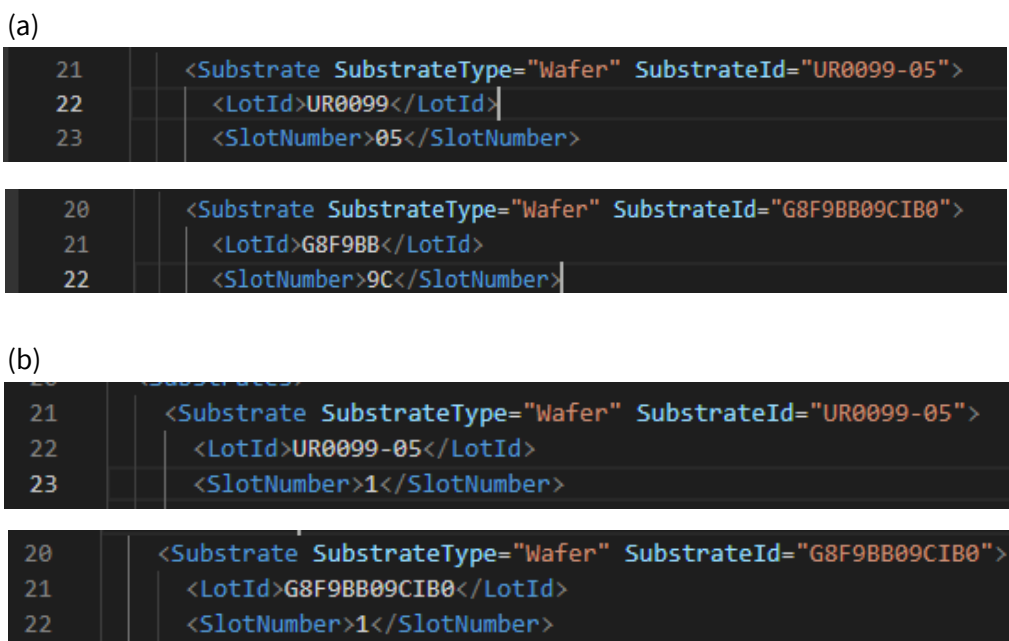


Figure 1. (a) WaferID information is truncated to show characters in the SlotNumber field, which becomes awkward while using the M12 format. (b) Proposed solution is to report full WaferID in the LotId field and “1” in the SlotNumber field.

Benefit of the Change

With Wolfspeed’s commitment to continuous improvement, this change will help to maintain the E142 wafer map specification without any violations.

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Affected Products

Table 1 lists the bare die Schottky diode products affected on the date this PCN is issued.

Table 1. Affected Products.

Schottky Die	
CPW2-0600-S006B	CPW3-0650-S004B
CPW2-0600-S008B	CPW4-1200-S002B
CPW2-0600-S010B	CPW4-1200-S005B
CPW2-0650-S006B	CPW4-1200-S008B
CPW2-0650-S008B	CPW4-1200-S010B
CPW2-0650-S010B	CPW4-1200-S015B
CPW2-0650-S012B	CPW4-1200-S020B
CPW2-0650-S016B	CPWR-0600-S001B
CPW3-0600-S002B	EPW4-1200-S010A
CPW3-0600-S003B	EPW4-1200-S020A
CPW3-0600-S004B	

Anticipated Impact

No customer action is required. There is no change to product form, fit, function, or reliability.

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
Projected First Ship Date	July 27, 2022

Contact Information

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

Table 3. PCN Contact.

Wolfspeed Contact	PCN Administrator
Wolfspeed Contact E-Mail	PCN@wolfspeed.com
Wolfspeed Contact Phone	1.844.200.WOLF
Address	4600 Silicon Drive Durham, NC 27703 U.S.A.

Revision History

Date	Revision	Description
July 27, 2022	0	Initial release