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DATE: 4<sup>th</sup> October, 2019

PCN #: 2425 (Rev 2)

PCN Title: Qualification of Additional Wafer Solderable Front Metal Plating, Back Grinding and Back Metal Process Source, and Additional Wafer Source for Select Products

Dear Customer:

This is an announcement of change(s) to products that are currently being offered by Diodes Incorporated.

We request that you acknowledge receipt of this notification within 30 days of the date of this PCN. If you require samples for evaluation purposes, please make a request within 30 days as well. Otherwise, samples may not be built prior to this change. Please refer to the implementation date of this change as it is stated in the attached PCN form. Please contact your local Diodes sales representative to acknowledge receipt of this PCN and for any sample requests.

The changes announced in this PCN will not be implemented earlier than 90 days from the notification date stated in the attached PCN form.

Previously agreed upon customer specific change process requirements or device specific requirements will be addressed separately.

For questions or clarification regarding this PCN, please contact your local Diodes sales representative.

Sincerely,

Diodes Incorporated PCN Team



**PRODUCT CHANGE NOTICE**

**PCN-2425 REV 2**

| Notification Date:   | Implementation Date:          | Product Family:         | Change Type:   | PCN #:         |                 |
|--|-------------------------------|-------------------------|--|----------------|-----------------|
| 4 <sup>th</sup> October, 2019  | 4 <sup>th</sup> January, 2020 | Discrete Semiconductors | Additional Solderable Front Metal Plating, Back Grinding and Back Metal Process Source, and Wafer Source | <b>2425</b>    |                 |
| <b>TITLE</b>   |                               |                         |  |                |                 |
| Qualification of Additional Wafer Solderable Front Metal Plating, Back Grinding and Back Metal Process Source, and Additional Wafer Source for Select Products   |                               |                         |  |                |                 |
| <b>DESCRIPTION OF CHANGE</b>   |                               |                         |  |                |                 |
| <p>This PCN is being issued to notify customers that in order to assure continuity of supply, Diodes Incorporated has qualified internal "Diodes Technology (Cheng Du) Company Limited" (CAT) located in Chengdu, China as an additional wafer solderable front metal plating, back grinding and back metal process facility, and also qualified "Diodes internal BCD (Shanghai) Micro-Electronics Limited" (SFAB2) in China as an additional internal wafer source for select products listed in tables below.</p> <p>Full electrical characterization and high reliability testing has been completed on representative part numbers to ensure there is no change to device functionality or electrical specifications in the datasheet. Refer to the attached qualification / reliability report (embedded in this file).</p> <p>There will be no change to the Form, Fit, or Function of affected products.</p> <p><b>Rev 2:</b> The following list of part numbers are being removed from this PCN (Table 1). The change(s) associated with these parts have now been included in PCN-2439.</p> |                               |                         |  |                |                 |
| DMT10H010LPS-13  | DMP34M4SPS-13                 | DMT31M7LPS-13           | DMT6010LPS-13  | DMTH3004LPS-13 | DMTH6005LPS-13  |
| DMN2005UPS-13  | DMP6050SPS-13                 | DMT32M5LPS-13           | DMT64M2LPSW-13   | DMTH4004LPS-13 | DMTH6006SPS-13  |
| DMNH10H028SPS-13   | DMPH1006UPS-13                | DMT34M1LPS-13           | DMT67M8LPSW-13   | DMTH4004SPS-13 | DMTH6009LPS-13  |
| DMNH4004SPS-13   | DMT10H009LPS-13               | DMT34M2LPS-13           | DMT8008LPS-13  | DMTH4005SPS-13 | DMTH6009SPS-13  |
| DMNH4005SPS-13   | DMT10H009SPS-13               | DMT36M1LPS-13           | DMT8012LPS-13  | DMTH4007LPS-13 | DMTH6010LPS-13  |
| DMNH4011SPS-13   | DMT10H010SPS-13               | DMT4004LPS-13           | DMTH10H009LPS-13   | DMTH4007SPS-13 | DMTH6016LPS-13  |
| DMNH6012SPS-13   | DMT10H015LPS-13               | DMT6004LPS-13           | DMTH10H009SPS-13   | DMTH4008LPS-13 | DMTH8008LPS-13  |
| DMNH6021SPS-13   | DMT10H4M5LPS-13               | DMT6004SPS-13           | DMTH10H010LPS-13   | DMTH43M8LPS-13 | DMTH8008SPS-13  |
| DMNH6042SPS-13   | DMT2004UPS-13                 | DMT6005LPS-13           | DMTH10H010SPS-13   | DMTH6004LPS-13 | DMTH8012LPS-13  |
| DMP2003UPS-13  | DMT3004LPS-13                 | DMT6009LPS-13           | DMTH10H015LPS-13   | DMTH6004SPS-13 | DMTH8012LPSW-13 |
| DMP3007SPS-13  | DMT3006LPS-13                 |                         |  |                |                 |
| <b>IMPACT</b>  |                               |                         |  |                |                 |
| Continuity of Supply. No change in datasheet parameters or product performance.  |                               |                         |  |                |                 |
| <b>PRODUCTS AFFECTED</b>   |                               |                         |  |                |                 |
| Table 1 – Affected Part List to add CAT as the additional wafer back grinding and back metal process facility  |                               |                         |  |                |                 |



Table 2 – Affected Part List to add CAT as the additional wafer solderable front metal plating, back grinding and back metal process facility

Table 3 – Affected Part List to add SFAB2 as the alternate internal wafer source

**WEB LINKS**

|                                      |   |
|--------------------------------------|---|
| <b>Manufacturer's Notice:</b>        | <a href="https://www.diodes.com/quality/product-change-notices/diodes-product-change-notices/">https://www.diodes.com/quality/product-change-notices/diodes-product-change-notices/</a> |
| <b>For More Information Contact:</b> | <a href="http://www.diodes.com/contacts">http://www.diodes.com/contacts</a>   |
| <b>Data Sheet:</b>                   | <a href="http://www.diodes.com/products">http://www.diodes.com/products</a>   |

**DISCLAIMER**

**Unless a Diodes Incorporated Sales representative is contacted in writing within 30 days of the posting of this notice, all changes described in this announcement are considered approved.**

**Table 1: Affected Part List to add CAT as the additional wafer back grinding and back metal process facility**

|                 |                  |               |                 |               |                   |
|-----------------|------------------|---------------|-----------------|---------------|-------------------|
| DMC2025UFDB-7   | DMN3009SK3-13    | DMP2004DWK-7  | DMP3056LSD-13   | DMT2004UFV-7  | DMT6016LSS-13     |
| DMC3016LDV-7    | DMN3009SSS-13    | DMP2010UFV-13 | DMP3056LSS-13   | DMT2005UDV-13 | DMT6017LFV-7      |
| DMC3016LNS-7    | DMN3010LK3-13    | DMP2010UFV-7  | DMP3085LSD-13   | DMT3006LFD-13 | DMT68M8LSS-13     |
| DMC3016LSD-13   | DMN3016LDV-13    | DMP2035U-7    | DMP3098L-7      | DMT3006LFD-7  | DMT8012LK3-13     |
| DMC3021LSD-13   | DMN3016LDV-7     | DMP2035UFD-7  | DMP3098LDM-7    | DMT3006LFG-7  | DMTH10H010LCT     |
| DMC3025LDV-7    | DMN3025LFV-13    | DMP2040USD-13 | DMP3098LSD-13   | DMT3006LFV-13 | DMTH10H010LCTB-13 |
| DMC3025LNS-13   | DMN3032LFD-7     | DMP2040USS-13 | DMP3098LSS-13   | DMT3006LFV-7  | DMTH10H010SCT     |
| DMC3025LNS-7    | DMN3042L-13      | DMP2075UFD-7  | DMP3099L-7      | DMT3009LDT-7  | DMTH10H015LCT     |
| DMC3025LSD-13   | DMN3055LFD-13    | DMP2130L-7    | DMP6023LE-13    | DMT3009LFVW-7 | DMTH10H015LK3-13  |
| DMC3028LSDX-13  | DMN3055LFD-7     | DMP2130LDM-7  | DMP6050SSD-13   | DMT3020LDV-13 | DMTH3004LK3-13    |
| DMC6040SSD-13   | DMN4010LK3-13    | DMP2305U-7    | DMP6110SSS-13   | DMT3020LDV-7  | DMTH4004LK3-13    |
| DMC6070LND-7    | DMN6017SFV-7     | DMP3007LSS-13 | DMP6185SE-13    | DMT3020LFD-7  | DMTH4004SCTB-13   |
| DMG2305UX-13    | DMN6017SK3-13    | DMP3007SCG-7  | DMPH4013SK3-13  | DMT3020LSD-13 | DMTH4005SCT       |
| DMG2305UX-7     | DMN6040SE-13     | DMP3013SFV-13 | DMPH4023SK3-13  | DMT3022UEV-7  | DMTH4005SK3-13    |
| DMG3414U-7      | DMN6068SE-13     | DMP3013SFV-7  | DMPH6023SK3-13  | DMT35M7LFV-13 | DMTH4007LK3-13    |
| DMG4435SSS-13   | DMN6069SE-13     | DMP3018SFV-13 | DMPH6050SK3-13  | DMT4005SCT    | DMTH4007SK3-13    |
| DMG6402LDM-7    | DMN6075S-13      | DMP3018SFV-7  | DMT10H009LSS-13 | DMT4008LFV-13 | DMTH43M8LK3-13    |
| DMN1004UFV-13   | DMN6075S-7       | DMP3018SSS-13 | DMT10H009SSS-13 | DMT4008LFV-7  | DMTH6004SCTB-13   |
| DMN1004UFV-7    | DMNH10H028SCT    | DMP3028LSD-13 | DMT10H010LCT    | DMT4008LSS-13 | DMTH6004SK3-13    |
| DMN1045UFR4-7   | DMNH10H028SK3-13 | DMP3036SFV-13 | DMT10H010LK3-13 | DMT6004SCT    | DMTH6005LK3-13    |
| DMN10H099SK3-13 | DMNH3010LK3-13   | DMP3036SFV-7  | DMT10H010SCT    | DMT6009LK3-13 | DMTH6009LK3-13    |
| DMN1250UFEL-7   | DMNH4006SK3-13   | DMP3036SSD-13 | DMT10H015LK3-13 | DMT6010SCT    | DMTH6010LK3-13    |
| DMN2009USS-13   | DMNH6011LK3-13   | DMP3036SSS-13 | DMT10H015SK3-13 | DMT6012LSS-13 | DMTH6010SCT       |
| DMN2056U-7      | DMNH6021SK3-13   | DMP3050LVT-7  | DMT10H072LFD-7  | DMT6013LFD-7  | DMTH6010SK3-13    |
| DMN3009LFV-13   | DMP1011LFV-13    | DMP3056L-7    | DMT10H072LFV-7  | DMT6015LFV-13 | DMTH6016LK3-13    |
| DMN3009LFV-7    | DMP1011LFV-7     | DMP3056LDM-7  | DMT2004UFV-13   | DMT6015LFV-7  | DMTH8012LK3-13    |
| DMN3009LFVW-7   | DMP1012USS-13    |               |                 |               |                   |

| Table 2 – Affected Part List to add CAT as the additional wafer soderable front metal plating, back grinding and back metal process facility |                 |                   |                  |                 |                |
|--|-----------------|-------------------|------------------|-----------------|----------------|
| DMN22M5UFG-7   | DMT4002LPS-13   | SBRT10U50SP5-13   | SBRT15U50SP5-7   | SBRT20U60SP5-7  | SBRT3U45SA-13  |
| DMN3013LDG-13  | DMT43M8LFG-7    | SBRT10U50SP5-13D  | SBRT20M60SP5-13  | SBRT20U60SP5-7D | SBRT3U45SAF-13 |
| DMP2001UPS-13  | DMT6002LPS-13   | SBRT15M50AP5-7    | SBRT20M60SP5-7   | SBRT3M40P1-7    | SBRT3U60P1-7   |
| DMP2002UPS-13  | DMTH3002LPS-13  | SBRT15U100SP5-13  | SBRT20M60SP5-7D  | SBRT3M40SA-13   | SBRT3U60SA-13  |
| DMP32M6SPS-13  | DMTH6002LPS-13  | SBRT15U100SP5-13D | SBRT20M80SP5-13  | SBRT3M60P1-7    | SBRT3U60SAF-13 |
| DMT10H009LFG-7   | DMTH62M8LPS-13  | SBRT15U100SP5-7   | SBRT20M80SP5-13D | SBRT3M60SA-13   | SBRT5A50SA-13  |
| DMT10H017LPD-13  | DMTH8003SPS-13  | SBRT15U50SP5-13   | SBRT20U60SP5-13  | SBRT3U40P1-7    | SBRT5A50SAF-13 |
| DMT31M6LPS-13  | SBRT10M50SP5-13 | SBRT15U50SP5-13D  |                  |                 |                |

| Table 3 – Affected Part List to add SFAB2 as the alternate internal wafer source |                |               |                |                |                |
|--|----------------|---------------|----------------|----------------|----------------|
| 2N7002-13-F  | BSS138-7-F     | DMG1013T-7    | DMN2028UFU-7   | DMN6140L-13    | DMP21D0UFB-7B  |
| 2N7002-7-F   | BSS138DW-7-F   | DMG1013UW-7   | DMN2050LFDB-13 | DMN6140L-7     | DMP21D0UT-7    |
| 2N7002DW-7-F   | BSS138W-7-F    | DMG1016UDW-7  | DMN2050LFDB-7  | DMN62D0SFD-7   | DMP2240UDM-7   |
| 2N7002E-7-F  | BSS8402DW-13-F | DMG1016V-7    | DMN2100UDM-7   | DMN63D1L-13    | DMP2240UW-7    |
| 2N7002K-13   | BSS8402DW-7-F  | DMG1023UV-7   | DMN2300U-7     | DMN63D1LT-13   | DMP4010SK3-13  |
| 2N7002K-7  | BSS84-13-F     | DMG1029SV-7   | DMN2300UFB4-7B | DMN63D1LT-7    | DMP4015SK3-13  |
| 2N7002T-13-F   | BSS84-7-F      | DMG6601LVT-7  | DMN2300UFB-7   | DMN63D1LV-7    | DMP4015SPS-13  |
| 2N7002T-7-F  | BSS84DW-13-F   | DMG6602SVTX-7 | DMN2300UFD-7   | DMN63D1LW-7    | DMP4015SSS-13  |
| 2N7002VAC-7  | BSS84DW-7-F    | DMG6968U-7    | DMN2300UFL4-7  | DMN66D0LDW-7   | DMP510DL-7     |
| 2N7002VC-7   | BSS84DW-7-G    | DMG6968UDM-7  | DMN3023L-7     | DMN67D8L-7     | DMP610DL-7     |
| 2N7002W-7-F  | BSS84W-7-F     | DMG6968UTS-13 | DMN601DMK-7    | DMN67D8LW-13   | DMPH4015SSS-13 |
| BS870-7-F  | DMC2700UDM-7   | DMG8601UFG-7  | DMN601DWK-7    | DMN67D8LW-7    | DMS2120LFWB-7  |
| BSN20-7  | DMC3400SDW-13  | DMG9933USD-13 | DMN601K-7      | DMP2100UFU-7   | DMS2220LFDB-7  |
| BSS123-13-F  | DMC3400SDW-7   | DMN2019UTS-13 | DMN601TK-7     | DMP2104V-7     | MMBF170-13-F   |
| BSS123-7-F   | DMG1012T-13    | DMN2026UVT-13 | DMN601VK-7     | DMP21D0UFB4-7B | MMBF170-7-F    |
| BSS123W-7-F  | DMG1012T-7     | DMN2026UVT-7  | DMN601WK-7     | DMP21D0UFB4-7R | ZXMN2F34FHTA   |
| BSS138-13-F  | DMG1012UW-7    | DMN2028UFDH-7 |                |                |                |