

DATE: 25th March, 2019

PCN #: 2403

PCN Title: Qualification of Additional Wafer Solderable Front Metal Plating, Back Grinding and Back Metal Process Source, Additional Wafer Source, or Additional Assembly and Test site 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-2403 REV 1

Notification Date:	Implementation Date:	Product Family:	Change Type:	PCN #:
25 th March, 2019	24 th June, 2019	Discrete Semiconductors	Additional Solderable Front Metal Plating, Back Grinding and Back Metal Process Source, Wafer Source, or A/T site	2403
TITLE				
Qualification of Additional Wafer Solderable Front Metal Plating, Back Grinding and Back Metal Process Source, Additional Wafer Source, or Additional Assembly and Test site for Select Products				
DESCRIPTION OF CHANGE				
<p>This PCN is being issued to notify customers that in order to assure continuity of supply, Diodes Incorporated has qualified "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 for select products.</p> <p>We also qualified “Diodes internal BCD (Shanghai) Micro-Electronics Limited” (SFAB2) in China as an additional wafer source, “Tianshui Huatian Electronic Group Co., Ltd.” (HTME) in China or “Tianshui Huatain Technology Co., Ltd.” (TSHT) in China as the additional assembly and test site for select products listed in different tables below.</p> <p>The package outline dimensions (POD), marking and/or appearance is different on the parts made by HTME and TSHT for SO-8, TO-263AB, TO252 and PowerDI5060 packages. Please refer to the details with different options 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>				
IMPACT				
Continuity of Supply. No change in datasheet parameters or product performance				
PRODUCTS AFFECTED				
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 additional wafer source Table 4 – Affected Part List to add HTME as the additional A/T Site Table 5 – Affected Part List to add TSHT as the additional A/T Site				
WEB LINKS				
Manufacturer’s Notice:	https://www.diodes.com/quality/product-change-notices/diodes-product-change-notices/			
For More Information Contact:	http://www.diodes.com/contacts			
Data Sheet:	http://www.diodes.com/products			
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

2N7002-13-F	2N7002W-7-F	DMN10H220L-7	DMN3033LSD-13	DMN601DMK-7	DMN65D8LW-7
2N7002-7-F	BSS138-13-F	DMN2004DMK-7	DMN3042L-7	DMN601DWK-7	DMN66D0LDW-7
2N7002A-13	BSS138-7-F	DMN2004DWK-7	DMN3404L-7	DMN601K-7	DMT10H010LSS-13
2N7002A-7	BSS138DW-7-F	DMN2004K-7	DMN4060SVT-7	DMN6040SSD-13	DMT10H025SSS-13
2N7002DW-7-F	DMC2038LVT-7	DMN2029USD-13	DMN53D0L-13	DMN6040SVT-7	DMT6009LSS-13
2N7002E-7-F	DMG3402L-7	DMN3015LSD-13	DMN53D0L-7	DMN6070SSD-13	DMT69M8LFV-13
2N7002K-13	DMG6402LVT-7	DMN3016LSS-13	DMN53D0LDW-7	DMN65D8L-7	DMT69M8LFV-7
2N7002K-7	DMG9926USD-13	DMN3033LDM-7	DMN53D0LW-7	DMN65D8LDW-7	

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

DMP2005UFG-13	DMP3007SFG-13	DMT10H015LFG-7	DMT32M5LFG-13	DMT6007LFG-13	DMT6007LFG-7
DMP2005UFG-7	DMP3007SFG-7	DMT3003LFG-7	DMT32M5LFG-7		

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

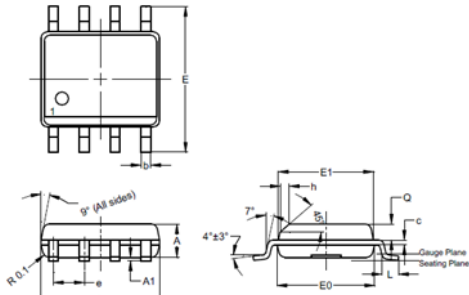
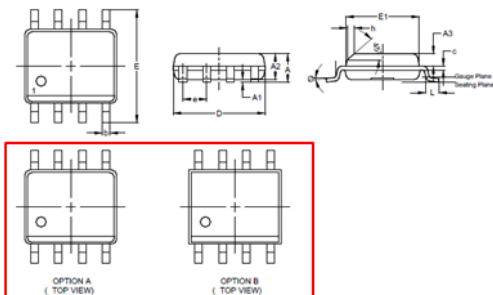
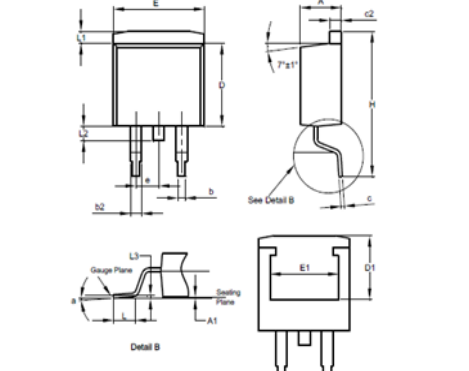
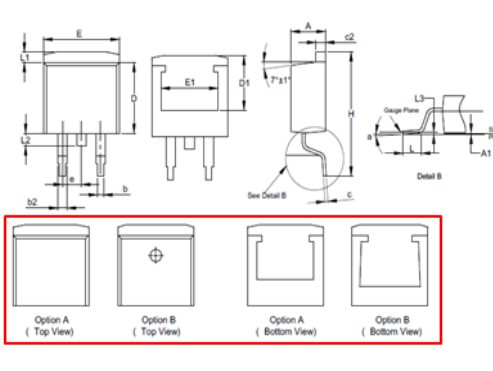
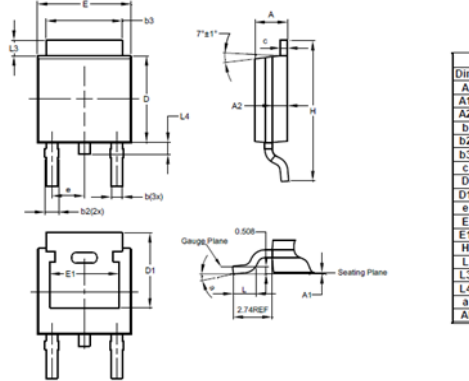
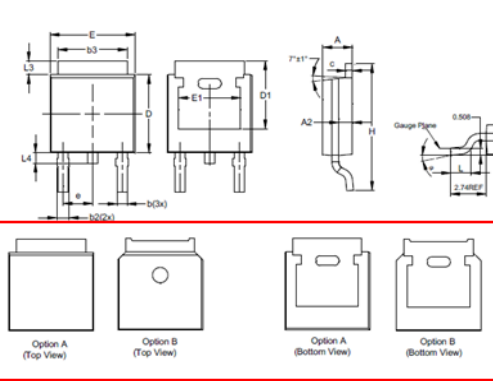
SDT10A45P5-7	SDT10A45P5-13				
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Table 4 – Affected Part List to add HTME as the additional A/T Site

DMN10H099SK3-13	DMNH6042SPS-13	DMT34M2LPS-13	DMTH10H010LPS-13	DMTH4005SK3-13	DMTH6004SPS-13
DMN3009SK3-13	DMT10H010LK3-13	DMT36M1LPS-13	DMTH10H010SPS-13	DMTH4005SPS-13	DMTH6005LK3-13
DMN3010LK3-13	DMT10H010LPS-13	DMT4004LPS-13	DMTH10H015LK3-13	DMTH4007LK3-13	DMTH6005LPS-13
DMN4010LK3-13	DMT10H010SPS-13	DMT6004LPS-13	DMTH10H015LPS-13	DMTH4007LPS-13	DMTH6009LK3-13
DMN6017SK3-13	DMT10H015LK3-13	DMT6004SPS-13	DMTH10H025SK3-13	DMTH4007SK3-13	DMTH6010LK3-13
DMNH10H028SK3-13	DMT10H015LPS-13	DMT6005LPS-13	DMTH3004LK3-13	DMTH4007SPS-13	DMTH6010LPS-13
DMNH10H028SPS-13	DMT10H015SK3-13	DMT6009LK3-13	DMTH3004LPS-13	DMTH4008LPS-13	DMTH6010SK3-13
DMNH3010LK3-13	DMT10H025LK3-13	DMT6010LPS-13	DMTH4004LK3-13	DMTH43M8LPS-13	DMTH6016LK3-13
DMNH4006SK3-13	DMT10H025SK3-13	DMT8012LK3-13	DMTH4004LPS-13	DMTH6004LPS-13	DMTH6016LPS-13
DMNH6011LK3-13	DMT2004UPS-13	DMT8012LPS-13	DMTH4004SCTB-13	DMTH6004SCTB-13	DMTH8012LK3-13
DMNH6012SPS-13	DMT3004LPS-13	DMTH10H010LCTB-13	DMTH4004SPS-13	DMTH6004SK3-13	DMTH8012LPS-13
DMNH6021SK3-13	DMT34M1LPS-13				

Table 5 – Affected Part List to add TSHT as the additional A/T Site

DMC3016LSD-13	DMC4015SSD-13	DMN3024LSD-13	DMN6066SSD-13	DMP3085LSD-13	DMP6050SSD-13
DMC3021LSD-13	DMC4028SSD-13	DMN4026SSD-13	DMP2040USD-13	DMP3098LSD-13	DMP6110SSD-13
DMC3025LSD-13	DMC4029SSD-13	DMN4027SSD-13	DMP3028LSD-13	DMP4047SSD-13	DMT10H014LSS-13
DMC3028LSD-13	DMC4047LSD-13	DMN4034SSD-13	DMP3036SSD-13	DMP4050SSD-13	DMT10H015LSS-13
DMC3028LSDX-13	DMC6040SSD-13	DMN6022SSD-13	DMP3056LSD-13		

<p>From : Current POD listed in the device datasheet</p> <p>Baseline POD (Diodes internal Shanghai and Chengdu Assembly & Test Site (SAT/CAT)</p> <p>Baseline SO-8</p>	<p>Change To : Combined POD will be listed in the device datasheet</p> <p>Combined POD (SAT/CAT + TSHT) covers baseline's POD.</p> <p>Combined SO-8: Option A (SAT/CAT-Baseline) + Option B (TSHT)</p>																																																																																																																																																
<p>SO-8</p>  <table><tr><th>Dim</th><th>Min</th><th>Max</th><th>Typ</th></tr><tr><td>A</td><td>1.40</td><td>1.50</td><td>1.45</td></tr><tr><td>A1</td><td>0.10</td><td>0.20</td><td>0.15</td></tr><tr><td>b</td><td>0.30</td><td>0.50</td><td>0.40</td></tr><tr><td>c</td><td>0.15</td><td>0.25</td><td>0.20</td></tr><tr><td>D</td><td>4.85</td><td>4.95</td><td>4.90</td></tr><tr><td>E</td><td>5.90</td><td>6.10</td><td>6.00</td></tr><tr><td>E1</td><td>3.80</td><td>3.90</td><td>3.85</td></tr><tr><td>E0</td><td>3.85</td><td>3.95</td><td>3.90</td></tr><tr><td>e</td><td>—</td><td>—</td><td>1.27</td></tr><tr><td>h</td><td>—</td><td>—</td><td>0.35</td></tr><tr><td>L</td><td>0.62</td><td>0.82</td><td>0.72</td></tr><tr><td>Q</td><td>0.60</td><td>0.70</td><td>0.65</td></tr></table> <p>All Dimensions in mm</p>	Dim	Min	Max	Typ	A	1.40	1.50	1.45	A1	0.10	0.20	0.15	b	0.30	0.50	0.40	c	0.15	0.25	0.20	D	4.85	4.95	4.90	E	5.90	6.10	6.00	E1	3.80	3.90	3.85	E0	3.85	3.95	3.90	e	—	—	1.27	h	—	—	0.35	L	0.62	0.82	0.72	Q	0.60	0.70	0.65	<p>SO-8 (Standard)</p>  <table><tr><th>Dim</th><th>Min</th><th>Max</th><th>Typ</th></tr><tr><td>A</td><td>0.10</td><td>0.25</td><td>—</td></tr><tr><td>A1</td><td>1.25</td><td>1.65</td><td>—</td></tr><tr><td>A2</td><td>0.50</td><td>0.70</td><td>—</td></tr><tr><td>b</td><td>0.30</td><td>0.51</td><td>—</td></tr><tr><td>c</td><td>0.15</td><td>0.25</td><td>—</td></tr><tr><td>D</td><td>4.80</td><td>5.00</td><td>—</td></tr><tr><td>E</td><td>5.80</td><td>6.20</td><td>6.00</td></tr><tr><td>E1</td><td>3.80</td><td>4.00</td><td>—</td></tr><tr><td>e</td><td>—</td><td>—</td><td>1.27</td></tr><tr><td>h</td><td>0.25</td><td>0.50</td><td>—</td></tr><tr><td>L</td><td>0.45</td><td>0.82</td><td>—</td></tr><tr><td>Q</td><td>0.60</td><td>0.70</td><td>—</td></tr></table> <p>All Dimensions in mm</p>	Dim	Min	Max	Typ	A	0.10	0.25	—	A1	1.25	1.65	—	A2	0.50	0.70	—	b	0.30	0.51	—	c	0.15	0.25	—	D	4.80	5.00	—	E	5.80	6.20	6.00	E1	3.80	4.00	—	e	—	—	1.27	h	0.25	0.50	—	L	0.45	0.82	—	Q	0.60	0.70	—																																								
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<p>From : Current POD listed in the device datasheet</p> <p>Baseline POD (Diodes internal Shanghai Assembly & Test Site (SAT))</p> <p>Baseline TO252</p>	<p>Change To : Combined POD will be listed in the device datasheet</p> <p>Combined POD (SAT + HTME) remains the same, except Dim L4.</p> <p>Combined TO252: Option A (SAT-Baseline)+ Option B (HTME)</p>																																																																																																																																																
<p>TO252 (DPAK)</p>  <table><tr><th>Dim</th><th>Min</th><th>Max</th><th>Typ</th></tr><tr><td>A</td><td>2.19</td><td>2.39</td><td>2.29</td></tr><tr><td>A1</td><td>0.00</td><td>0.13</td><td>0.08</td></tr><tr><td>A2</td><td>0.97</td><td>1.17</td><td>1.07</td></tr><tr><td>b</td><td>0.64</td><td>0.88</td><td>0.783</td></tr><tr><td>b2</td><td>0.76</td><td>1.14</td><td>0.95</td></tr><tr><td>b3</td><td>5.21</td><td>5.46</td><td>5.33</td></tr><tr><td>c</td><td>0.45</td><td>0.58</td><td>0.531</td></tr><tr><td>D</td><td>6.00</td><td>6.20</td><td>6.10</td></tr><tr><td>D1</td><td>5.21</td><td>—</td><td>—</td></tr><tr><td>e</td><td>—</td><td>—</td><td>2.286</td></tr><tr><td>E</td><td>6.45</td><td>6.70</td><td>6.58</td></tr><tr><td>E1</td><td>4.32</td><td>—</td><td>—</td></tr><tr><td>H</td><td>9.40</td><td>10.41</td><td>9.91</td></tr><tr><td>L</td><td>1.40</td><td>1.78</td><td>1.59</td></tr><tr><td>L3</td><td>0.88</td><td>1.27</td><td>1.08</td></tr><tr><td>L4</td><td>0.64</td><td>1.02</td><td>0.83</td></tr><tr><td>a</td><td>0"</td><td>10"</td><td>—</td></tr></table> <p>All Dimensions in mm</p>	Dim	Min	Max	Typ	A	2.19	2.39	2.29	A1	0.00	0.13	0.08	A2	0.97	1.17	1.07	b	0.64	0.88	0.783	b2	0.76	1.14	0.95	b3	5.21	5.46	5.33	c	0.45	0.58	0.531	D	6.00	6.20	6.10	D1	5.21	—	—	e	—	—	2.286	E	6.45	6.70	6.58	E1	4.32	—	—	H	9.40	10.41	9.91	L	1.40	1.78	1.59	L3	0.88	1.27	1.08	L4	0.64	1.02	0.83	a	0"	10"	—	<p>TO252 (Standard)</p>  <table><tr><th>Dim</th><th>Min</th><th>Max</th><th>Typ</th></tr><tr><td>A</td><td>2.19</td><td>2.39</td><td>2.29</td></tr><tr><td>A1</td><td>0.00</td><td>0.13</td><td>0.08</td></tr><tr><td>A2</td><td>0.97</td><td>1.17</td><td>1.07</td></tr><tr><td>b</td><td>0.64</td><td>0.88</td><td>0.783</td></tr><tr><td>b2</td><td>0.76</td><td>1.14</td><td>0.95</td></tr><tr><td>b3</td><td>5.21</td><td>5.46</td><td>5.33</td></tr><tr><td>c</td><td>0.45</td><td>0.58</td><td>0.531</td></tr><tr><td>D</td><td>6.00</td><td>6.20</td><td>6.10</td></tr><tr><td>D1</td><td>5.21</td><td>—</td><td>—</td></tr><tr><td>e</td><td>—</td><td>—</td><td>2.286</td></tr><tr><td>E</td><td>6.45</td><td>6.70</td><td>6.58</td></tr><tr><td>E1</td><td>4.32</td><td>—</td><td>—</td></tr><tr><td>H</td><td>9.40</td><td>10.41</td><td>9.91</td></tr><tr><td>L</td><td>1.40</td><td>1.78</td><td>1.59</td></tr><tr><td>L3</td><td>0.88</td><td>1.27</td><td>1.08</td></tr><tr><td>L4</td><td>0.60</td><td>1.02</td><td>0.83</td></tr><tr><td>a</td><td>0"</td><td>10"</td><td>—</td></tr></table> <p>All Dimensions in mm</p>	Dim	Min	Max	Typ	A	2.19	2.39	2.29	A1	0.00	0.13	0.08	A2	0.97	1.17	1.07	b	0.64	0.88	0.783	b2	0.76	1.14	0.95	b3	5.21	5.46	5.33	c	0.45	0.58	0.531	D	6.00	6.20	6.10	D1	5.21	—	—	e	—	—	2.286	E	6.45	6.70	6.58	E1	4.32	—	—	H	9.40	10.41	9.91	L	1.40	1.78	1.59	L3	0.88	1.27	1.08	L4	0.60	1.02	0.83	a	0"	10"	—
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From : Current POD listed in the device datasheet

Baseline POD (Diodes internal Shanghai Assembly & Test Site (SAT))

Baseline PowerDI5060-8 POD

Dim	Min	Max	Typ
A	0.90	1.10	1.00
A1	0.00	0.05	—
b	0.33	0.51	0.41
b2	0.200	0.350	0.273
b3	0.40	0.60	0.60
c	0.230	0.330	0.277
d	—	5.15 BSC	—
D	4.70	5.10	4.90
D1	3.70	4.10	3.90
D2	3.90	4.30	4.10
E	—	6.15 BSC	—
E1	5.60	6.00	5.80
E2	3.28	3.68	3.48
E3	3.99	4.39	4.19
e	—	1.27 BSC	—
f	0.51	0.71	0.61
g	0.51	—	—
K	0.51	—	—
L	0.51	0.71	0.61
L1	0.100	0.200	0.175
M	3.235	4.035	3.635
M1	1.00	1.40	1.21
O	10°	12°	11°
O1	6°	8°	7°

All Dimensions in mm

Change To : Combined POD will be listed in the device datasheet

Combined POD (SAT + HTME) and Suggested Pad Layout cover baseline's.

Combined PowerDI5060-8: Option A (SAT-Baseline)+ Option B (HTME)

Dim	Min	Max	Typ
A	0.90	1.20	—
A1	0.00	0.05	—
b	0.33	0.51	—
b2	0.200	0.350	—
b3	0.40	0.60	0.60
c	0.230	0.354	—
d	—	5.15 BSC	—
D	4.70	5.40	—
D1	3.70	4.25	—
D2	3.90	4.70	—
E	—	6.15 BSC	—
E1	5.60	6.06	—
E2	3.28	3.92	—
E3	3.99	4.39	—
e	—	1.27 BSC	—
f	0.40	0.71	—
g	0.51	—	—
K	0.51	1.45	—
L	0.36	0.71	—
L1	0.100	0.200	—
M	3.235	4.035	—
M1	1.00	1.40	1.21
O	8°	12°	—
O1	6°	8°	7°

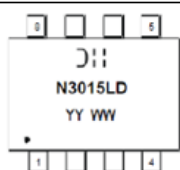
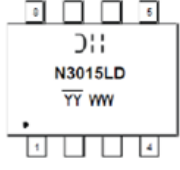
All Dimensions in mm

Baseline PowerDI5060-8 Suggested Pad Layout

Dimensions	Value (in mm)
C	1.270
G	0.660
G1	0.820
X	0.610
X1	4.100
X2	0.755
X3	4.420
X4	5.610
Y	1.270
Y1	0.600
Y2	1.020
Y3	0.295
Y4	1.825
Y5	3.610
Y6	0.180
Y7	6.610

Combined PowerDI5060-8 Suggested Pad Layout: Option A (SAT-Baseline)+ Option B (HTME)

Dimensions	Value (in mm)
C	1.270
G	0.660
G1	0.820
X	0.610
X1	4.300
X2	0.755
X3	4.420
X4	5.610
Y	1.270
Y1	0.600
Y2	1.020
Y3	0.295
Y4	1.825
Y5	4.100
Y6	0.180
Y7	6.610

Different bar location for different Assembly & Test Site.		
Assembly & Test Site	Marking explain	Marking example
SAT	Not add any bar	
CAT	Add bar above year code	
HTME/TSHT	Add bar below week code	