



DATE: 7<sup>th</sup> December, 2018

PCN #: 2374

PCN Title: Qualification of "Diodes Technology (Cheng Du) Company Limited" (CAT) as an Additional Assembly & Test Site, Conversion to Palladium Coated Copper Bond Wire with New Molding Compound, and Qualification of Alternative Die Source on 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-2374 REV 1**

Notification Date:	Implementation Date:	Product Family:	Change Type:	PCN #:
7 <sup>th</sup> December, 2018	7 <sup>th</sup> March, 2019	Discrete Semiconductors	Additional Assembly & Test Site / Additional Die Source / Bond Wire Material / Molding Compound Type / Part Top Marking	<b>2374</b>
<b>TITLE</b>				
Qualification of "Diodes Technology (Chengdu) Company Limited" (CAT) as an Additional Assembly & Test Site, Conversion to Palladium Coated Copper Bond Wire with New Molding Compound, and/or Qualification of Alternative Die Source on 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 has qualified an additional Diodes internal Assembly and Test site (CAT) in Chengdu, China, qualified Palladium Coated Copper (PdCu) bond wire with new molding compound at CAT, and/or qualified additional die source for select products listed in this PCN.</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>				
<b>IMPACT</b>				
Continuity of Supply. No change in data sheet electrical parameters and/or product performance. Some packages will have top marking changes as outlined in tables 6 – 19 below.				
<b>PRODUCTS AFFECTED</b>				
<p>Please see the parts list below in the following Tables:</p> <p>Table 1 - Affected Part List to add CAT as the additional A/T Site.</p> <p>Table 2 - Affected Part List to add CAT as the additional A/T Site and convert to PdCu wire with new molding compound at CAT.</p> <p>Table 3 - Affected Part List to add CAT as the additional A/T Site, convert to PdCu wire with new molding compound at CAT, and qualify Diodes internal OFAB (Diodes Zetex Semiconductors Limited) as an alternate die source.</p> <p>Table 4 - Affected Part List to add CAT as the additional A/T Site, convert to PdCu wire with new molding compound at CAT, and qualify Phenitec as an alternate die source.</p> <p>Table 5 - Affected Part List to add CAT as the additional A/T Site, convert to PdCu wire with new molding compound at CAT, and qualify Diodes internal SFAB1 (Shanghai SIM-BCD Semiconductor Manufacturing Company, Ltd.) as an alternate die source.</p> <p>Table 6 - Mark Code Format - DFN1212</p> <p>Table 7 - Mark Code Format – DFN1610</p> <p>Table 8 - Mark Code Format – DFN2020</p> <p>Table 9 - Mark Code Format – DFN2510</p> <p>Table 10 - Mark Code Format – SOD-123</p> <p>Table 11 - Mark Code Format – SOD-323</p> <p>Table 12 - Mark Code Format – SOT-223</p> <p>Table 13 - Mark Code Format – SOT-23</p> <p>Table 14 - Mark Code Format – SOT-26</p> <p>Table 15 - Mark Code Format – SOT-323</p> <p>Table 16 - Mark Code Format – SOT-363</p> <p>Table 17 - Mark Code Format – SOT-523</p> <p>Table 18 - Mark Code Format – SSOT-23</p> <p>Table 19 - Mark Code Format – TSOT23-6</p>				



**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 A/T Site**

2N7002A-7	BAT54CDW-7-F	DMG2301LK-7	DMN2041UFDB-7	DMN61D9UW-13	DMP2021UFDE-13
2N7002H-13	BAT54CTA	DMG2302UK-13	DMN2046U-7	DMN61D9UW-7	DMP2021UFDE-7
2N7002H-7	BAT54DW-7-F	DMG2302UK-7	DMN2050LFDB-13	DMN62D0LFD-7	DMP2021UFDF-7
2N7002W-7-F	BAT54JW-7-F	DMG302PU-7	DMN2050LFDB-7	DMN62D0U-13	DMP2023UFDF-13
B0520LW-7-F	BAT54SDW-7-F	DMG3404L-7	DMN2056U-7	DMN62D0U-7	DMP2023UFDF-7
B0530W-7-F	BAT54STA	DMG3406L-13	DMN2058U-7	DMN62D0UDW-7	DMP2035U-13
B0540W-7-F	BAT54TA	DMG3406L-7	DMN2058UW-7	DMN62D0UW-13	DMP2035U-7
B130LAW-7-F	BAT54TW-7-F	DMG6402LDM-7	DMN3016LFDE-13	DMN62D0UW-7	DMP2035UFDF-7
B140HW-7	BAT750-7-F	DMN1004UFDF-7	DMN3016LFDE-7	DMN62D1LFD-13	DMP2039UFDE-7
B140WS-7	BAT750TA	DMN1008UFDF-13	DMN3016LFD-7	DMN62D1LFD-7	DMP2040UFDF-7
BAS40-05-13-F	BSS138K-13	DMN1008UFDF-7	DMN3020UFDF-7	DMN63D1L-13	DMP2045U-7
BAS40-06-13-F	BSS138K-7	DMN1014UFDF-7	DMN3021LFD-7	DMN63D1L-7	DMP2060UFDB-7
BAS40BRW-7-F	D12V0H1U2LP1610-7	DMN1019UFDE-7	DMN3025LFD-7	DMN63D1LDW-7	DMP2065UFDB-13
BAS40DW-04-7-F	D14V0H1U2LP1610-7	DMN1025UFDB-7	DMN3032LFDB-7	DMN63D1LW-7	DMP2065UFDB-7
BAS40DW-05-7-F	D26V0H1U2LP20-7	DMN1029UFDB-7	DMN3042L-13	DMN63D8L-7	DMP2066UFDE-7
BAS40DW-06-7-F	D3V3F4U10LP-7	DMN10H120SE-13	DMN3042L-7	DMN63D8LW-13	DMP2075UFDB-7
BAS40TW-7-F	D3V3X4U10LP-7	DMN10H170SFDE-7	DMN3042LFD-7	DMN63D8LW-7	DMP2120U-13
BAS70BRW-7-F	D5V0F4U10LP-7	DMN10H170SVT-7	DMN3055LFDB-13	DMN66D0LDW-7	DMP2120U-7
BAS70DW-04-13-F	D5V0H1U2LP1610-7	DMN10H700S-13	DMN3055LFDB-7	DMN67D7L-7	DMP2160UFDB-7
BAS70DW-04-7-F	D5V0S1U2LP1610-7	DMN10H700S-7	DMN30H4D0LFDE-7	DMN67D8L-7	DMP2165UW-7
BAS70DW-05-7-F	D60V0L4B10LP-7	DMN2011UFDE-13	DMN31D5L-7	DMN67D8LW-13	DMP2170U-7
BAS70DW-06-7-F	D6V3H1U2LP16-7	DMN2011UFDE-7	DMN4020LFDE-7	DMP1005UFDF-7	DMP2240UW-7
BAS70JW-7-F	D7V9H1U2LP1610-7	DMN2011UFDF-7	DMN4020SVT-7	DMP1009UFDF-7	DMP2305UVT-7
BAS70TW-13-F	DMC1028UFDB-7	DMN2013UFDE-7	DMN6040SFDE-7	DMP1022UFDE-7	DMP25H18DLFDE-7
BAS70TW-7-F	DMC1029UFDB-7	DMN2015UFDE-13	DMN6040SVT-7	DMP1022UFDF-13	DMP3026SFDF-13
BAT1000-7-F	DMC1030UFDB-7	DMN2015UFDE-7	DMN6075S-13	DMP1022UFDF-7	DMP3026SFDF-7
BAT400D-7-F	DMC1229UFDB-13	DMN2015UFDF-7	DMN6075S-7	DMP1046UFDB-13	DMP3028LFDE-13
BAT54ADW-7-F	DMC1229UFDB-7	DMN2022UFDF-7	DMN61D9U-7	DMP1046UFDB-7	DMP3028LFDE-7
BAT54ATA	DMC2025UFDB-7	DMN2028UFDF-7	DMN61D9UDW-13	DMP1055UFDB-7	DMP3056L-7
BAT54BRW-7-F	DMC2041UFDB-7	DMN2040U-7	DMN61D9UDW-7	DMP10H4D2S-7	DMP3056LVT-7



**Table 1 – Affected Part List to add CAT as the additional A/T Site, Cont'd**

DMP3068L-7	DMP6110SVT-7	DMT5015LFDF-13	DT1240E-04LP-7	SDM100K30L-7	ZHCS400TC
DMP3125L-7	DMP6350S-7	DMT5015LFDF-7	DT1240V3-04LP-7	SDM20N40A-7	ZHCS500TA
DMP32D4SW-13	DMS2220LFDB-7	DMT6013LFDF-7	SBR0560S1-7	SDM2U20SD3-7	ZHCS506TA
DMP4047LFDE-7	DMT2004UFDF-13	DMT6016LFDF-13	SBR130S3-7	SDM40E20LA-7	ZHCS750TA
DMP4065S-13	DMT2004UFDF-7	DMT6016LFDF-7	SBR160S23-7	SDM40E20LC-7	ZLLS1000TA
DMP4065S-7	DMT3006LFDF-7	DSS4160FDB-7	SBR1A40S1-7	SDM40E20LS-7-F	ZLLS2000TA
DMP510DL-7	DMT3008LFDF-7	DSS5160FDB-7	SBR1A40S3-7	ZHCS1000TA	ZLLS400TA
DMP610DL-7	DMT3020LFDB-7	DT1140-04LP-7	SBRT05U20S3-7	ZHCS1000TC	ZLLS400TC
DMP6110SFDF-13	DMT3020LFDF-7	DT1240-04LP-7	SD103ASDM-7-F	ZHCS2000TA	ZLLS410TA
DMP6110SFDF-7	DMT4008LFDF-7	DT1240A-04LP-7	SD103ATW-7-F	ZHCS400TA	ZLLS500TA
DMP6110SVT-13					

**Table 2 – Affected Part List to add CAT as the additional A/T Site and convert to PdCu wire with new molding compound at CAT**

2DA1774R-7-F	BAV99T-7-G	DDTA114WE-7-F	DDTC115TE-7-F	DMN2300UFD-7	DMP21D0UT-7
2DA1774S-7-F	BAW156T-7-F	DDTA123JE-7-F	DDTC122LE-7-F	DMN2400UFD-7	DMP21D5UFD-7
2DA2018-7	BAW56T-7-F	DDTA123YE-7-F	DDTC123JE-7-F	DMN2450UFD-7	DMP21D6UFD-7
2DC4617R-7-F	BZX84C10T-7-F	DDTA124XE-7-F	DDTC123YE-7-F	DMN26D0UT-7	DMP22D6UT-7
2DC4617S-7-F	BZX84C12T-7-F	DDTA142TE-7-F	DDTC124EE-7-F	DMN313DLT-7	MMBD4448HT-7-F
2N7002T-13-G	BZX84C15T-7-F	DDTA143EE-7-F	DDTC124TE-7-F	DMN33D8LT-13	MMBD4448HTA-7-F
2N7002T-7-F	BZX84C18T-7-F	DDTA143TE-7-F	DDTC124XE-7-F	DMN33D8LT-7	MMBD4448HTC-7-F
2N7002T-7-G	BZX84C22T-7-F	DDTA143XE-7-F	DDTC142JE-7-F	DMN53D0LT-7	MMBD4448HTS-7-F
BAS116T-7-F	BZX84C2V4T-7-F	DDTA143ZE-7-F	DDTC142TE-7-F	DMN55D0UT-7	MMBT4401T-7-F
BAS16T-7-F	BZX84C2V7T-7-F	DDTA144EE-7-F	DDTC143EE-7-F	DMN5L06TK-7	MMBZ5221BT-7-F
BAS21T-7-F	BZX84C30T-7-F	DDTA144WE-7-F	DDTC143TE-7-F	DMN601TK-7	MMBZ5225BT-7-F
BAT54AT-7-F	BZX84C33T-7-F	DDTC113TE-7-F	DDTC143XE-7-F	DMN62D0SFD-7	MMBZ5226BT-7-F
BAT54CT-7-F	BZX84C4V3T-7-F	DDTC113ZE-7-F	DDTC143ZE-7-F	DMN62D0UT-7	MMBZ5227BT-7-F
BAT54ST-7-F	BZX84C5V1T-7-F	DDTC114EE-7-F	DDTC144EE-7-F	DMN63D0LT-7	MMBZ5232BT-7-F
BAT54T-7-F	BZX84C5V6T-7-F	DDTC114TE-7-F	DDTC144TE-7-F	DMN63D1LT-7	MMBZ5235BT-7-F
BAV170T-7-F	BZX84C6V2T-7-F	DDTC114WE-7-F	DDTC144WE-7-F	DMN66D0LT-7	MMBZ5241BT-7-F
BAV199T-7-F	BZX84C6V8T-7-F	DDTC114YE-7-F	DMG1012T-7	DMP2004TK-7	MMBZ5248BT-7-F
BAV99T-13-F	DDTA113TE-7-F	DDTC115EE-7-F	DMG1013T-7	DMP2039UFDE4-7	MMBZ5258BT-7-F
BAV99T-7-F	DDTA114EE-7-F	DDTC115GE-7-F	DMN2004TK-7	DMP21D0UFD-7	

**Table 3 – Affected Part List to add CAT as the additional A/T Site, convert to PdCu wire with new molding compound at CAT, and qualify Diodes internal OFAB (Diodes Zetex Semiconductors Limited) as an alternate die source**

BC847AT-7-F	BC857AT-7-F	BC857CT-7-F	MMBT2907AT-7-F	MMBT3904T-7-F	MMBT3906T-7-F
BC847BT-7-F	BC857BT-7-F	MMBT2222AT-7-F	MMBT3904T-13-F	MMBT3906T-13-F	MMBT4403T-7-F
BC847CT-7-F					

**Table 4 – Affected Part List to add CAT as the additional A/T Site, convert to PdCu wire with new molding compound at CAT, and qualify Phenitec as an alternate die source**

BAV70T-7-F	MMBZ5234BT-7-F				
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**Table 5 – Affected Part List to add CAT as the additional A/T Site, convert to PdCu wire with new molding compound at CAT, and qualify Diodes internal SFAB1 (Shanghai SIM-BCD Semiconductor Manufacturing Company, Ltd.) as an alternate die source**

BAS40-04T-7-F	BAS40-06T-7-F	BAS70-04T-7-F	BAS70-06T-7-F	BAS70T-7-F	BAS70T-7-G
BAS40-05T-7-F	BAS40T-7-F	BAS70-05T-7-F			

**Table 6 - Mark Code Format - DFN1212**

SAT (Diodes Internal AT site Shanghai, China)		CAT (Diodes Internal AT Site Chengdu, China) Change from YM to YWX for CAT site	
Marking orientation photo(PlanForm,Perspective - from top to bottom)		Marking orientation photo(PlanForm,Perspective - from top to bottom)	
<b>1.DFN1212-3</b>		<b>1.DFN1212-3</b>	
(Top)	(Perspective)	(Top)	(Perspective)
<b>2.DFN1212C-3</b>		<b>2. DFN1212C-3</b>	
(Top)	(Perspective)	(Top)	(Perspective)

**Table 7 - Mark Code Format – DFN1610**

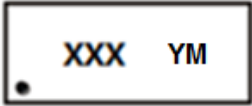
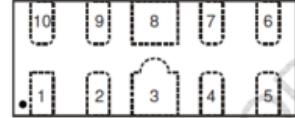
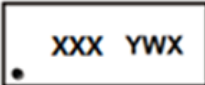

SAT (Diodes Internal AT site Shanghai, China)		CAT (Diodes Internal AT Site Chengdu, China) Change from YM to YWX for CAT site	
Marking orientation photo(Plan Form,Perspective - from top to bottom)		Marking orientation photo(Plan Form, Perspective - from top to bottom)	
<b>1.DFN1610B-2</b>		<b>1.DFN1610B-2</b>	
(Top)	(Perspective)	(Top)	(Perspective)

**Table 8 - Mark Code Format – DFN2020**

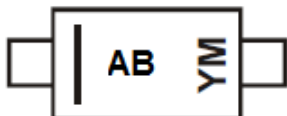
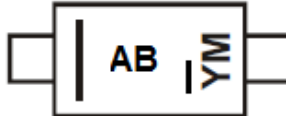
SAT (Diodes Internal AT site Shanghai, China)		CAT (Diodes Internal AT Site Chengdu, China) Change from YM to YWX for CAT site	
Marking orientation photo(PlanForm,Perspective,from top to bottom)		Marking orientation photo(PlanForm,Perspective -from top to bottom)	
<b>1.DFN2020-2</b>		<b>1.DFN2020-2</b>	
(Top)	(Perspective)	(Top)	(Perspective)

2.DFN2020B-6		2.DFN2020B-6	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
3. DFN2020E-6		3. DFN2020E-6	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
4.DFN2020F-6		4.DFN2020F-6	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
5.DFN2020H4-6		5.DFN2020H4-6	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
6. DFN2020W-6		6. DFN2020W-6	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
7.SWP-DFN2020E-6		7.SWP-DFN2020E-6	
 (Top)	 (Perspective)	 (Top)	 (Perspective)

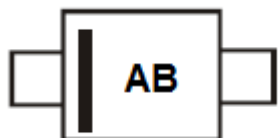
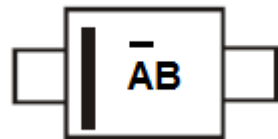
**Table 9 - Mark Code Format – DFN2510**

<b>SAT (Diodes Internal AT site Shanghai, China)</b>		<b>CAT (Diodes Internal AT Site Chengdu, China) Change from YM to YWX for CAT site</b>	
Marking orientation photo(planform,perspective -from top to bottom)		Marking orientation photo(planform,perspective -from top to bottom)	
<b>DFN2510-10</b>		<b>DFN2510-10</b>	
 (Top)	 (Perspective)	 (Top)	 (Perspective)


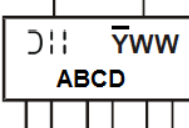
**Table 10 - Mark Code Format –SOD-123**

<b>SAT (Diodes Internal AT site Shanghai, China)</b>		<b>CAT (Diodes Internal AT Site Chengdu, China) Add "-"on Y for CAT site</b>	
Marking format example		Marking format example	
			

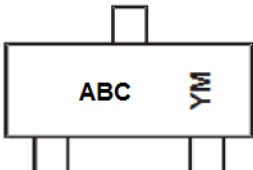
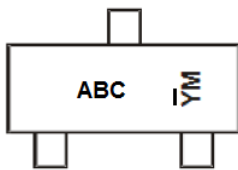
**Table 11 - Mark Code Format –SOD-323**

<b>SAT (Diodes Internal AT site Shanghai, China)</b>		<b>CAT (Diodes Internal AT Site Chengdu, China) Add "-"on first character for CAT site</b>	
Marking format example		Marking format example	
			

**Table 12 - Mark Code Format –SOT-223**

<b>SAT (Diodes Internal AT site Shanghai, China)</b>		<b>CAT (Diodes Internal AT Site Chengdu, China) Add "-"on Y for CAT site</b>	
Marking format example		Marking format example	
			

**Table 13 - Mark Code Format –SOT-23**

<b>SAT (Diodes Internal AT site Shanghai, China)</b>		<b>CAT (Diodes Internal AT Site Chengdu, China) Add "-"on Y for CAT site</b>	
Marking format example		Marking format example	
			

**Table 14 - Mark Code Format –SOT-26**

SAT (Diodes Internal AT site Shanghai, China)		CAT (Diodes Internal AT Site Chengdu, China) Add “-”on Y for CAT site	
Marking format example		Marking format example	

**Table 15 - Mark Code Format –SOT-323**

SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Add “-”on Y for CAT site
Marking format example	Marking format example

**Table 16 - Mark Code Format –SOT-363**

SAT (Diodes Internal AT site Shanghai, China)		CAT (Diodes Internal AT Site Chengdu, China) Add “-”on Y for CAT site	
Marking format example		Marking format example	

**Table 17 - Mark Code Format –SOT-523**

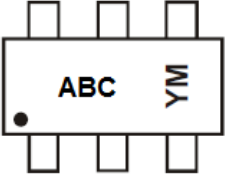
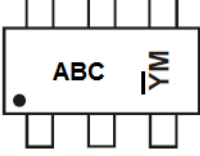
SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Add “-”on Y for CAT site
Marking format example	Marking format example

**Table 18 - Mark Code Format –SSOT-23**

SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Add “-”on Y for CAT site
Marking format example	Marking format example



**Table 19 - Mark Code Format –TSOT23-6**

SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Add “-”on Y for CAT site
Marking format example	Marking format example
	

**Remark: YWX is date code**

**Y is year code:0~9**

**W is week code:1~26 use A~Z to display**

**27--53 use a~z, z displayed 52 and 53 week**

**X is internal code: lot schedule start date**

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Green	T	U	V	W	X	Y	Z
Lead Free	t	u	v	w	x	y	z