

DATE: 4th December, 2020

PCN #: 2485 – Rev 2 - (Automotive)

PCN Title: Qualification of Internal "Diodes Technology (Cheng Du) Company Limited" (CAT) as Additional Assembly & Test Site Using PdCu or Au Bond Wire, And Qualification of Additional Wafer Source for Select Discrete Automotive 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-2485 REV 2

Notification Date:	Implementation Date:	Product Family:	Change Type:	PCN #:
4 th December, 2020	4 th March, 2021	Discrete (Automotive)	Additional Assembly & Test Site / Assembly Bill of Materials / Additional Wafer Source / Part Top Marking	2485
		TITLE		
			ted" (CAT) as Additional Assembly & T purce for Select Discrete Automotive Pr	
		DESCRIPTION OF CHA	NGE	
This PCN is being issued to notify customers that in order to assure continuity of supply, Diodes has qualified internal "Diodes Technology (Cheng Du) Company Limited" (CAT) located in Chengdu, China as additional Assembly and Test site using PdCu or Au bond wire, and has also qualified Diodes internal BCD (Shanghai) Micro-Electronics Limited (SFAB2) in Shanghai China, as an additional wafer source for select automotive products listed in this PCN. Full electrical characterization and high reliability testing has been completed on representative part numbers to ensure no change to device functionality or electrical specifications in the datasheet. Refer to the attached Qualification Report (embedded in this file – to view, download this PCN file then open it with a PDF viewer to see the attached qual report). Rev 2: Added two additional pages of qualification data for SFAB2 to the attached (revised) qualification report.				
		IMPACT		
	have top marking chang		n of products affected, unless specification of products affected, unless specification of the tables below. No change	
		PRODUCTS AFFECT	ED	
Please see the attached part list, top marking changes or POD changes in following Tables: Table 1 – Affected Part List to add CAT as A/T site using PdCu or Au bond wire. Table 2 – Affected Part List to add CAT as A/T site using PdCu or Au bond wire, and add Diodes internal SFAB2 as a wafer source Table 3 – Affected Part List to add Diodes internal SFAB2 as a wafer source				
Table 4 – Marking Code	-	ckages		
Table 5 – POD Format for affected package				
WEB LINKS				
Manufacturer's Notice	: <u>https://ww</u>	w.diodes.com/quality/pro	duct-change-notices/diodes-product-cl	nange-notices/
For More Information	Contact: <u>http://www</u>	v.diodes.com/contacts		
Data Sheet:	http://www	v.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 A/T site using PdCu or Au bond wire				
ADTA144EUAQ-13*	DMN2065UWQ-7*	DMNH4011SPSQ-13	DMP4011SPSQ-13	DMTH32M5LPSQ-13***	DMTH6005LPSQ-13
ADTA144ECAQ-13*	DMN3033LSDQ-13	DMNH6012SPSQ-13	DMP4013SPSQ-13	DMTH4004LPSQ-13	DMTH6006LPSWQ-13
ADTC144EUAQ-13*	DMN3033LSNQ-7	DMNH6021SPDQ-13	DMP4065SQ-7	DMTH4004SPSQ-13	DMTH6010LPDQ-13
BAT54TQ-7-F*	DMN4031SSDQ-13	DMNH6021SPDWQ-13	DMP6350SQ-7	DMTH4005SPSQ-13	DMTH6010LPSQ-13
BC817-25Q-7-F*	DMN4035LQ-7	DMNH6021SPSQ-13***	DMPH1006UPSQ-13***	DMTH4007LPSQ-13	DMTH6010LPSWQ-13
BCR420UW6Q-7*	DMN53D0LQ-13*	DMNH6042SPDQ-13	DMPH4013SPSQ-13	DMTH4007SPDQ-13	DMTH6012LPSWQ-13
DMC3021LSDQ-13	DMN53D0LQ-7*	DMNH6042SPSQ-13***	DMPH6050SPDQ-13	DMTH4008LPSQ-13***	DMTH6016LPDQ-13
DMG1013UWQ-13*	DMN55D0UTQ-7**	DMP2160UWQ-7*	DMPH6050SSDQ-13	DMTH4011SPDQ-13	DMTH6016LPSQ-13***
DMG1013UWQ-7*	DMN5L06DMKQ-7*	DMP2240UWQ-7*	DMTH10H009LPSQ-13	DMTH4014LPDQ-13	DMTH8008SPSQ-13
DMG3420UQ-7	DMN5L06WKQ-7*	DMP3007SPSQ-13	DMTH10H010SPSQ-13	DMTH43M8LPSQ-13***	DMTH8012LPSQ-13
DMN10H220LQ-7	DMN61D9UWQ-13*	DMP3010LPSQ-13	DMTH10H025LPSQ-13***	DMTH6004LPSQ-13	DMTH84M1SPSQ-13
DMN2004DWKQ-7*	DMN61D9UWQ-7*	DMP3028LPSQ-13	DMTH3004LPSQ-13	DMTH6004SPSQ-13	ZXMN2F30FHQTA
DMN2004WKQ-7*	DMNH4005SPSQ-13				

Table 2 - Affected Part List to add CAT as A/T site using PdCu or Au bond wire, and add Diodes internal SFAB2 as a wafer source					
2N7002DWAQ-7*	2N7002TQ-7-F**	BSS138DWQ-13*	BSS84DWQ-7**	DMN601WKQ-7*	DMP4015SPSQ-13
2N7002DWQ-13-F**	BS870Q-7-F*	BSS138DWQ-7*	BSS84Q-13-F**	DMN6140LQ-13*	DMP4015SSSQ-13**
2N7002DWQ-7-F**	BSN20Q-7*	BSS138Q-7-F**	BSS84Q-7-F**	DMN6140LQ-7*	DMPH4015SPSQ-13
2N7002KQ-13**	BSS123Q-13**	BSS8402DWQ-13**	BSS84WQ-7-F*	DMN65D8LQ-13*	DMPH4015SSSQ-13
2N7002KQ-7**	BSS123Q-7**	BSS8402DWQ-7**	DMN601DWKQ-7*	DMN65D8LQ-7*	MMBF170Q-7-F*
2N7002Q-7-F**	BSS123WQ-7-F*	BSS84DWQ-13**	DMN601WKQ-13*		

Table 3 - Affected Part List to add Diodes internal SFAB2 as a wafer source					
2N7002AQ-13	2N7002AQ-7	DMN65D8LDWQ-7	DMP4010SK3Q-13	DMP4015SK3Q-13	DMPH4015SK3Q-13

Note: "*" Change bond wire from Cu to PdCu Note: "**" Change bond wire from Au to PdCu Note: "***" Change bond wire from Cu to Au

Table 4 - Marking Code Formats





SOT	-26
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301-20			
SAT (Diodes Internal AT site Shanghai, China)		CAT (Diodes Internal A	T Site Chengdu, China)
	-	Bar "-" above Y indicates C	AT
Marking format example		Marking format example	
	MY 28A WY 28A VBC AW		

SOT-323

SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Bar "-" above Y indicates CAT	
Marking format example	Marking format example	

SOT-363

SAT (Diodes Internal AT site Shanghai, China)		CAT (Diodes Internal AT S Bar "-" above Y indicates CAT	
Marking format example		Marking format example	
ABC AM			

SOT-523

SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Bar "-" above Y indicates CAT	
Marking format example	Marking format example	



SSOT-23	
SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China)
	Bar "-" above Y indicates CAT
Marking format example	Marking format example

SOP-8L

	-	
SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China)	
	Bar "-" above Y indicates CAT	
Marking format example	Marking format example	
8 5	8 5	
ABCDEFG	ABCDEFG	
YY WW	YY WW	
	1 4	

SC-59	
SAT (Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China)
	Bar "-" above Y indicates CAT
Marking format example	Marking format example
ABC ⋛	ABC IÈ

PowerDI5060-8L SAT (Current Diodes Internal AT site Shanghai, China)	CAT (Diodes Internal AT Site Chengdu, China) Bar "-" above Y indicates CAT
Marking format example	Marking format example
Oli = Manufacturer's Marking ABCDEFG YY WW • •	D:: = Manufacturer's Marking ABCDEFG YY ww Other marking layout also will follow change for site Identifier



