



DATE: 15th May, 2019

PCN #: 2402

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 Lead Frame Type on Select Discrete 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-2402 REV 1

Notification Date:	Implementation Date:	Product Family:	Change Type:	PCN #:
15 th May, 2019	15 th August, 2019	Discrete Semiconductors	Additional Assembly & Test Site / Bond Wire Material / Lead Frame Type / Part Top Marking	2402
TITLE				
Qualification of "Diodes Technology (Cheng Du) Company Limited" (CAT) as an Additional Assembly & Test Site and Conversion to Palladium Coated Copper Bond Wire with New Lead Frame Type on Select Products				
DESCRIPTION OF CHANGE				
<p>This PCN is being issued to notify customers that in order to assure continuity of supply, Diodes has qualified additional Diodes internal Assembly and Test site (CAT) in Chengdu, China, and qualified Palladium Coated Copper (PdCu) bond wire with new lead frame type at CAT for select Discrete 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>				
IMPACT				
Continuity of Supply. No change in data sheet electrical parameters and product performance. Some packages will have top marking changes as outlined in tables 5 – 9 below.				
PRODUCTS AFFECTED				
<p>Please see the attached part list below in following Tables:</p> <p>Table 1 - Affected Part List to add CAT as the additional A/T Site and convert to PdCu wire with new lead frame type.</p> <p>Table 2 - Affected Part List to add CAT as the additional A/T Site and convert to PdCu wire.</p> <p>Table 3 - Affected Part List to add CAT as the additional A/T Site.</p> <p>Table 4 - Affected Part List to convert to PdCu wire.</p> <p>Table 5 - Mark Code Format - DFN1616</p> <p>Table 6 - Mark Code Format – DFN3030</p> <p>Table 7 - Mark Code Format – DFN3333</p> <p>Table 8 - Mark Code Format – QFN1515</p> <p>Table 9 - Mark Code Format – SOT-363</p>				
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 A/T Site and convert to PdCu wire with new lead frame type

BC847PN-13-F	DCX124EU-7-F	DDC114YU-7-F	DDC144NS-7	MMDT2907A-7-F	MMDT5401-7-F
DCX114EU-13R-F	DDA114YU-7-F	DDC123JU-7-F	DDC144TU-7	MMDT4401-7-F	MMDT5451-7-F
DCX114EU-7-F	DDA144EU-7-F	DDC124EU-7-F	MMDT2222A-7-F	MMDT4403-7-F	MMDT5551-7-F
DCX123JU-7-F	DDC114EU-7-F	DDC144EU-7-F	MMDT2227-7-F	MMDT4413-7-F	

Table 2 – Affected Part List to add CAT as the additional A/T Site and convert to PdCu wire

BC846AS-7	BC857BS-7-F	DCX143EU-7-F	DDA114EU-7-F	DDA143TU-7-F	DDC143ZU-7-F
BC847BS-13-F	BCM857BS-7-F	DCX143TU-7-F	DDA114TU-7-F	DDC113TU-7-F	DMMT3904W-13-F
BC847BS-7-F	DCX114TU-7-F	DCX143ZU-13R-F	DDA122LU-7-F	DDC114TU-7-F	DMMT3906W-13-F
BC847PN-7-F	DCX114YU-7-F	DCX143ZU-7-F	DDA123JU-7-F	DDC115EU-7-F	DMP1245UFCL-7
BC856AS-7	DCX115EU-7-F	DCX144EU-7-F	DDA124EU-7-F	DDC143TU-7-F	MIMD10A-7-F
BC857BS-13-F	DCX122LU-7-F	DDA113TU-7-F			

Table 3 – Affected Part List to add CAT as the additional A/T Site

D26V0H1U2LP16-7	DMN1250UFEL-7	DMN6070SFCL-7	DMP3007SCG-13	DMT10H015LCG-7	DMT3011LDT-7
DMG4468LFG-7	DMN2016LFG-7	DMP2035UFCL-7	DMP3007SCG-7	DMT3006LDK-7	DMT6018LDR-13
DMG4800LFG-7	DMN2020UFCL-7	DMP2200UFCL-7	DMT10H015LCG-13	DMT3009LDT-7	DMT6018LDR-7
DMG8601UFG-7	DMN3016LDN-7				

Table 4 – Affected Part List to convert to PdCu wire

DMMT3904W-7-F	MMDT3904-7-F	MMDT3946-7-F	MMDT4124-7-F	MMDT4126-7-F	MMDT4146-7-F
DMMT3906W-7-F	MMDT3906-7-F				

Table 5 - Mark Code Format - DFN1616

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)	
1. DFN1616-2		1. DFN1616-2	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
2. DFN1616E-6		2. DFN1616E-6	
 (Top)	 (Perspective)	 (Top)	 (Perspective)

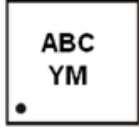
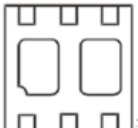
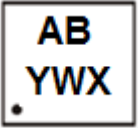
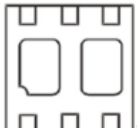
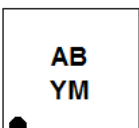
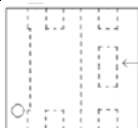
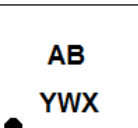
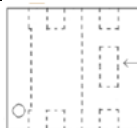
3.DFN1616F-6		3.DFN1616F-6	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
4. DFN1616K-6		4. DFN1616K-6	
 (Top)	 (Perspective)	 (Top)	 (Perspective)

Table 6 - Mark Code Format – DFN3030

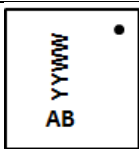
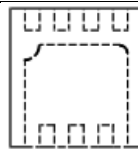
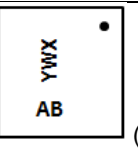
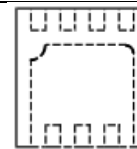
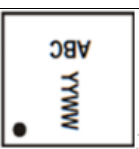
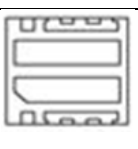
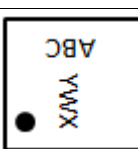
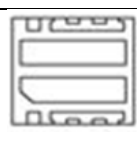
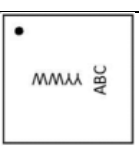
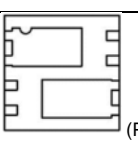

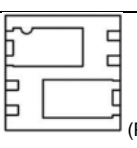
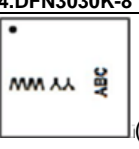
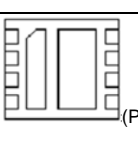
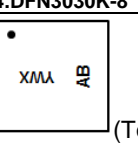
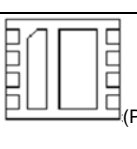
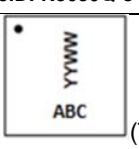
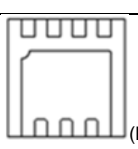
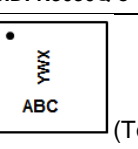
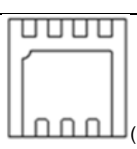
SAT (Diodes Internal AT site Shanghai, China)		CAT (Diodes Internal AT Site Chengdu, China) Change from YM to YWX for CAT site	
Marking orientation photo (Plan Form, Perspective - from top to bottom)		Marking orientation photo (Plan Form, Perspective - from top to bottom)	
1. DFN3030-8		1. DFN3030-8	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
2. DFN3030H-8		2. DFN3030H-8	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
3.DFN3030J-8		3.DFN3030J-8	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
4.DFN3030K-8		4.DFN3030K-8	
 (Top)	 (Perspective)	 (Top)	 (Perspective)
5.DFN3030Q-8		5.DFN3030Q-8	
 (Top)	 (Perspective)	 (Top)	 (Perspective)

Table 7 - Mark Code Format – DFN3333

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)	
1. DFN3333B-8		1.DFN3333B-8	

Table 8 - Mark Code Format – QFN1515

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)	
1.QFN1515-12		1.QFN1515-12	

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

Table 9 - 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	