



DATE: 8 September, 2022

PCN #: 2595

PCN Title: Qualified Additional Wafer Fab Source, Die Revisions, Bill of Materials, and Data Sheet Changes

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-2595 REV 1

Notification Date:	Implementation Date:	Product Family:	Change Type:	PCN #:
8 September, 2022	8 December, 2022	Analog	Wafer Fab Source, Die Revisions, Bill of Materials, and Data Sheet Changes	2595
TITLE				
Qualified Additional Wafer Fab Source, Die Revisions, Bill of Materials, and Data Sheet Changes				
DESCRIPTION OF CHANGE				
<p>This PCN is being issued to notify customers that in order to assure continuity of supply, Diodes Incorporated has qualified additional Wafer Fab Source (Key Foundry) located in Cheongju, Korea.</p> <p>Diodes has also qualified additional Bill of Materials (BOM), additional Die Revisions, and changes to Data Sheets for electrical parameters as well as Top Marking.</p> <p>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, unless specifically described in Table A. 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).</p>				
IMPACT				
Continuity of Supply. There will be no change to the Form, Fit or Function of products affected, unless specifically indicated in Table A or B, below.				
PRODUCTS AFFECTED				
Table 1 - Qualified Additional BOM (Lead Frame, Die Attach, Mold Compound) Table 2 - Qualification Additional Die Revision (Metal Only), includes a Data Sheet Change to RDIS Parameter (See Table A) Table 3 - Qualification Additional Die Revision (Metal Spin) Table 4 - Top Marking Change (See Table B) Table 5 - Qualification Additional Wafer Fab Source "Key Foundry"				
WEB LINKS				
Manufacturer's Notice:	https://www.diodes.com/quality/product-change-notices/diodes-product-change-notices/			
For More Information Contact:	https://www.diodes.com/about/contact-us/contact-sales/			
Data Sheet:	https://www.diodes.com/catalog/			
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 - Qualified Additional BOM (Lead Frame, Die Attach, Mold Compound)

PAM8320RDR					
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Table 2 - Qualification Additional Die Revision (Metal Only), includes a Data Sheet Change to RDIS Parameter (See Table A)

AP25810LDFZ20-13					
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Table 3 - Qualification Additional Die Revision (Metal Spin)

AP3177BS7-13	AP3177CS7-13	AP3177DS7-13			
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Table 4 - Top Marking Change (See Table B)

G43270003	G43270009	G43270010	G43270013	G43270015	G43270016
G43270017	G43270018	G43270019	G43270021	G43270022	G43270024
G43270025	G43270027	G43270028			

Table 5 - Qualification Additional Wafer Fab Source "Key Foundry"

FJ2500044	FK4910007	FM1000001	FM2500009	FM2500016	FN3000053
FN3330104Z	HX2013C0024.000000	HX21260001			

Table A:

			Current Spec.				New Spec.			
Electrical Characteristics <small>-40°C ≤ T_J ≤ 125°C, 4.5V ≤ V_{IN1} ≤ 6.5V, 4.5V</small>										
Symbol	Parameters	Test Conditions	Min	Typ	Max	Unit	Min	Typ	Max	Unit
OUT power switch DC parameter										
RDIS	Discharge resistance	V _{OUT} = 4V, UFP signature removed from CC lines, time < tw_DCHG	400	500	600	Ω	10	20	60	Ω
VCONN-PowerSwitch AC parameters										
tr	Output voltage rise time		0.15	0.25	0.35	ms	0.15	0.25	0.4	ms
tf	Output voltage fall time		0.18	0.22	0.3	ms	0.18	0.22	0.35	ms
ton	Output voltage turn on time		1	1.5	2	ms	0.9	1.5	2	ms
toff	Output voltage turn off time		0.2	0.4	0.55	ms	0.15	0.4	0.55	ms
LD_DET										
ITH_LDDET	OUT sourcing, rising threshold current for load detect		1.8	1.95	2.1	A	1.8	1.95	2.25	A

Table B:

PN	Package	Side by Side comparison Logo/Marking	
		Current BCD Top Marking	New Top Marking
DAS02	SOT26		<p>(Top View)</p> <p>DE2 : Identification Code Y : Year 0 to 9 W : Week : A to Z : 1 to 26 Week; a to z : 27 to 52 Week; z Represents 52 and 53 Week X : Internal Code</p>
AP4320AK6TR-G1	SOT26		<p>(Top View)</p> <p>GJZ : Identification Code Y : Year 0 to 9 W : Week : A to Z : 1 to 26 Week; a to z : 27 to 52 Week; z Represents 52 and 53 Week X : Internal Code</p>
AP4320BK6TR-G1	SOT26		<p>(Top View)</p> <p>GKW : Identification Code Y : Year 0 to 9 W : Week : A to Z : 1 to 26 Week; a to z : 27 to 52 Week; z Represents 52 and 53 Week X : Internal Code</p>