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DATE: 11<sup>th</sup> April, 2018

PCN #: 2312

PCN Title: Qualification of Additional Bill of Materials (BOM), Top Marking, and Fab Source 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



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**PRODUCT CHANGE NOTICE****PCN-2312 REV1**

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Notification Date:	Implementation Date:	Product Family:	Change Type:	PCN #:
11 <sup>th</sup> April, 2018	11 <sup>th</sup> July, 2018	Analog	BOM, Top Marking, and Fab Source	<b>2312</b>
<b>TITLE</b>				
Qualification of Additional Bill of Materials (BOM), Top Marking, and Fab Source for Select Products				
<b>DESCRIPTION OF CHANGE</b>				
<p>This PCN is being issued to notify customers that in order to ensure continuity of supply Diodes Incorporated has qualified additional bill of materials (BOM) and an additional Diodes internal Fab source on select products. In addition, product marking changes (logo, format, date code) will be implemented.</p> <p>Full electrical characterization and reliability testing has been completed on representative part numbers to ensure there is no change to product reliability, device functionality or electrical specifications in the device datasheet. See attached (embedded) qualification reports.</p>				
<b>IMPACT</b>				
No change in datasheet electrical parameters however, some devices will have different top marking as noted in table 7 below.				
<b>PRODUCTS AFFECTED</b>				
Table 1 - Qualify Additional Diodes Internal Fab Source SFAB2 (Shanghai, China) Table 2 - Qualify Additional Diodes Internal Fab Source SFAB2 (Shanghai, China) and Top Marking Change for Select Packages Table 3 - Qualify Additional BOM (.8 mil PdCu wire, SOT-23Z LF, mold compound CEL-1700HF40SK-D3) Table 4 - Qualify Additional BOM (.8 mil Cu wire, SOT-23U LF, Epoxy 84-1LMISR4, mold compound CEL-1700HF40SK-D3) Table 5 - Qualify Additional BOM (TSOT23-5D LF, Epoxy 84-1LMISR4.8, mold compound CEL-1700HF40SK-D3) Table 6 - Qualify Additional Metal Layer Material (NiPt60%) Table 7 – Top Marking Change Table (Current vs. New)				
<b>WEB LINKS</b>				
<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.html">http://www.diodes.com/contacts.html</a>			
<b>Data Sheet:</b>	<a href="http://www.diodes.com/catalog">http://www.diodes.com/catalog</a>			
<b>DISCLAIMER</b>				
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 - Qualify Additional Diodes Internal Fab Source SFAB2 (Shanghai, China)**

LMV393M8-13	LMV393S-13	LMV331SE-7	LMV331W5-7		
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**Table 2 - Qualify Additional Diodes Internal Fab Source SFAB2 (Shanghai, China) and Top Marking Change for Select Packages**

AZV393MTR-G1	AZV393GTR-E1	AZV393GTR-G1	AZV393MMTR-E1	AZV393MMTR-G1	AZV393MTR-E1
AZV331KTR-G1	AZV331KSTR-E1	AZV331KSTR-G1	AZV331KTR-E1		

**Table 3 - Qualify Additional BOM (.8 mil PdCu wire, SOT-23Z LF, mold compound CEL-1700HF40SK-D3)**

APX809-23SAG-7	APX809-40SAG-7	APX810-26SAG-7	APX810-44SAG-7	APX803-29SAG-7	APX803-46SAG-7
APX809-23SRG-7	APX809-40SRG-7	APX810-26SRG-7	APX810-44SRG-7	APX803-29SRG-7	APX803-46SRG-7
APX809-26SAG-7	APX809-44SAG-7	APX810-29SAG-7	APX810-46SAG-7	APX803-31SAG-7	APX803D-29SAG-7
APX809-26SRG-7	APX809-44SRG-7	APX810-29SRG-7	APX810-46SRG-7	APX803-31SRG-7	APX803D-29SRG-7
APX809-29SAG-7	APX809-46SAG-7	APX810-31SAG-7	APX803-23SAG-7	APX803-40SAG-7	
APX809-29SRG-7	APX809-46SRG-7	APX810-31SRG-7	APX803-23SRG-7	APX803-40SRG-7	
APX809-31SAG-7	APX810-23SAG-7	APX810-40SAG-7	APX803-26SAG-7	APX803-44SAG-7	
APX809-31SRG-7	APX810-23SRG-7	APX810-40SRG-7	APX803-26SRG-7	APX803-44SRG-7	

**Table 4 - Qualify Additional BOM (.8 mil Cu wire, SOT-23U LF, Epoxy 84-1LMISR4, mold compound CEL-1700HF40SK-D3)**

TLV431AFTA	TLV431BFTA	TLV431TFTA			
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**Table 5 - Qualify Additional BOM (TSOT23-5D LF, Epoxy 84-1LMISR4.8, mold compound CEL-1700HF40SK-D3)**

ZXLD1615ET5TA	ZXLD1350ET5TA				
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**Table 6 - Qualify Additional Metal Layer Material (NiPt60%)**

AP3019AKTR-G1					
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**Table 7 – Top Marking**

Package	Side by Side comparison Logo/Marking	
	Current Top Marking	New Diodes Top Marking
SO-8&SO-8EP	<p>SO-8</p>	<p>SO-8</p>
SOT25	<p>(Top View)</p>	<p>(Top View)</p>
TSSOP-8	<p>TSSOP-8</p>	<p>MSOP-8 &amp; TSSOP-8</p>
MSOP-8	<p>MSOP-8</p>	<p>MSOP-8</p> <p>(Top View)</p>
SOT353	<p>(Top View)</p>	<p>(Top View)</p>