



DATE: 15<sup>th</sup> May, 2018

PCN #: 2343

PCN Title: Qualification of Additional Bill of Materials (BOM), Fab Source for Select Products with Top Marking Change 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



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**PRODUCT CHANGE NOTICE****PCN-2343 REV 1**

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Notification Date:	Implementation Date:	Product Family:	Change Type:	PCN #:
15 <sup>th</sup> May, 2018	15 <sup>th</sup> Aug, 2018	Analog	BOM, Fab Source with Top Marking Change	<b>2343</b>
<b>TITLE</b>				
Qualification of Additional Bill of Materials (BOM), Fab Source for Select Products with Top Marking Change on Select Product				
<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 material (BOM) and an additional Diodes internal Fab source (SFAB2) located in Shanghai, China on select products which will include marking updates to reflect Diodes top marking brand/logo.</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. Refer to the attached (embedded) qualification/reliability report.</p>				
<b>IMPACT</b>				
No change in datasheet electrical parameters however, some devices will have different top marking as noted in Table 3 below.				
<b>PRODUCTS AFFECTED</b>				
Table 1 - Qualify Additional Bill of Material (BOM) - Metal Layer Change to the die Table 2 -Qualify Additional Diodes Internal Fab Source SFAB2 (Shanghai, China) and Top Marking Change on Select Product Table 3 – Top Marking Change				
<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 Bill of Material (BOM) - Metal Layer Change to the die**

74AVC1T45DW-7	74AVC1T45W6-7	74AVC1T45FW3-7	74AVC1T45FZ4-7	74AVC1T45FW5-7	74AVC1T45FX4-7
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**Table 2 -Qualify Additional Diodes Internal Fab Source SFAB2 (Shanghai, China) and Top Marking Change on Select Products**

AP2120N-1.2TRG1	AP2121AK-1.3TRE1	AP2121AK-3.2TRG1	AP2121N-3.0TRG1	AP2122AK-3.3TRG1	AP2138RA-3.3TRG1
AP2120N-1.3TRG1	AP2121AK-1.3TRG1	AP2121AK-3.3TRE1	AP2121N-3.2TRE1	AP2138N-1.2TRG1	AP2139AK-1.2TRG1
AP2120N-1.5TRG1	AP2121AK-1.5TRE1	AP2121AK-3.3TRG1	AP2121N-3.3TRE1	AP2138N-1.4TRG1	AP2139AK-1.4TRG1
AP2120N-1.8TRG1	AP2121AK-1.5TRG1	AP2121N-1.2TRE1	AP2121N-3.3TRG1	AP2138N-1.5TRG1	AP2139AK-1.5TRG1
AP2120N-2.5TRG1	AP2121AK-1.8TRE1	AP2121N-1.2TRG1	AP2121UN-3.3TRE1	AP2138N-1.8TRG1	AP2139AK-1.8TRG1
AP2120N-2.8TRG1	AP2121AK-1.8TRG1	AP2121N-1.3TRE1	AP2122AK-1.5TRE1	AP2138N-2.1TRG1	AP2139AK-2.5TRG1
AP2120N-3.0TRG1	AP2121AK-2.5TRE1	AP2121N-1.5TRE1	AP2122AK-1.8TRE1	AP2138N-2.2TRG1	AP2139AK-2.8TRG1
AP2120N-3.2TRG1	AP2121AK-2.5TRG1	AP2121N-1.8TRE1	AP2122AK-2.5TRE1	AP2138N-2.5TRG1	AP2139AK-3.0TRG1
AP2120N-3.3TRG1	AP2121AK-2.8TRE1	AP2121N-1.8TRG1	AP2122AK-2.8TRE1	AP2138N-2.8TRG1	AP2139AK-3.3TRG1
AP2120N-5.0TRG1	AP2121AK-2.8TRG1	AP2121N-2.5TRE1	AP2122AK-3.0TRE1	AP2138N-3.0TRG1	AP2139AK-4.0TRG1
AP2120Z-3.3TRG1	AP2121AK-3.0TRE1	AP2121N-2.8TRE1	AP2122AK-3.0TRG1	AP2138N-3.3TRG1	
AP2121AK-1.2TRE1	AP2121AK-3.0TRG1	AP2121N-2.8TRG1	AP2122AK-3.2TRE1	AP2138N-3.6TRG1	
AP2121AK-1.2TRG1	AP2121AK-3.2TRE1	AP2121N-3.0TRE1	AP2122AK-3.3TRE1	AP2138N-4.0TRG1	

**Table 3**

Package	Side by Side comparison Logo/Marking	
	Current BCD Top Marking	New Diodes Top Marking
SOT23	<p>Logo XXX: Marking ID (See Ordering Information)</p>	<p>(Top View)            XX: Identification code            Y: Year 0-9            W: Week: A-Z: 1-26 week;            a-z: 27-52 week; z represents 52 and 53 week            X: Internal code</p>
SOT25	<p>Logo XXX: Marking ID (See Ordering Information)</p>	<p>(Top View)            XXX: Identification Code            Y: Year 0 to 9            W: Week: A to Z: 1 to 26 week;            a-z: 27 to 52 week; z represents 52 and 53 week            X: Internal Code</p>
TO92	<p>First and Second Lines: Logo and Marking ID (See Ordering Information)            Third Line: Date Code            Y: Year            WW: Work Week of Molding            A: Assembly House Code            XX: 7th and 8th Digits of Batch Number</p>	<p>First and Second Lines: Marking ID. (See Ordering Information).            Y: Year: 0-9            WW: Week: 01-52; 52: Represents 52 and 53 Week.            X: Internal Code.</p>
SOT89	<p>First Line: Logo and Marking ID (See Ordering Information)            Second Line: Date Code            Y: Year            WW: Work Week of Molding            A: Assembly House Code            XX: 7<sup>th</sup> and 8<sup>th</sup> Digits of Batch Number</p>	<p>(Top View)            XXX: Identification code            Y: Year: 0-9            W: Week: A-Z: 1-26 week;            a-z: 27-52 week;            z represents 52 and 53 week            X: Internal code</p>