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DATE: 13<sup>th</sup> February, 2020

PCN #: 2438

PCN Title: Data Sheet Change and Additional Qualified Package BOM

#### 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-2438 REV 1

Notification Date: Implementation Date:		Product Family:	Change Type:	PCN #:	
13 <sup>th</sup> February, 2020	13 <sup>th</sup> May, 2020	Analog Semiconductors	Data Sheet Change and Additional Qualified Package BOM	2438	

#### **TITLE**

Data Sheet Change and Additional Qualified Package BOM

### **DESCRIPTION OF CHANGE**

This PCN is being issued to notify customers that in order to assure continuity of supply, Diodes is planning to implement the following changes on products as indicated in the 'Products Affected' section below.

- 1. Data Sheet change to reflect more accurate start up performance.
- 2. Additional package Bill of Material (BOM) has been qualified.
  Full electrical characterization and high reliability testing has been completed to ensure there is no change to device functionality or electrical specifications in the datasheet for the package BOM change. Refer to the attached qualification / reliability report (embedded in this file).

IMPACT							
Continuity of Supply.							
PRODUCTS AFFECTED							
1. NX7125003Z: 2. KM3270004:							
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.



# Change #1 - Diodes Part Number NX7125003Z

Existing Datasheet -

Start Up Time - 3ms max

### Output Enable / Disable Function

Parameter		Тур.	Max.	Units	Notes
Input Voltage (Pin1), Output Enable				٧	Or Open
Input Voltage (Pin1), Output Disable (low power standby)			0.3V <sub>DD</sub>	٧	Output is Hi-Z
Output Disable Delay			100	ns	
Output Enable Delay			100	ns	
Start Up Time			3	ms	

New Datasheet

Start Up Time – 10ms max

# Output Enable / Disable Function

Parameter		Тур.	Max.	Units	Notes
Input Voltage (Pin1), Output Enable				٧	Or Open
Input Voltage (Pin1), Output Disable (low power standby)			0.3V <sub>DD</sub>	٧	Output is Hi-Z
Output Disable Delay			100	ns	
Output Enable Delay			100	ns	
Start Up Time			10	ms	



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# Change #2 - Diodes Part Number KM3270004

Products category			Seam Sea	led Oscillator	Seam Sealed Oscillator			
Parts Number Products Photo			KM3270004	(Original PKG)	KM3270004 (New PKG)			
			Top Vices	Inthe Ver	TuyViso	Introduction View		
<b>M</b> echanical Drawing			2.0±0.2	0.7 0.575	2.0±0.2	0.7 0.575		
			0.75±0.10		0.75±0.15			
Land Pattern			#1 1-1.4 #2		#4 0.5 - 0.9 #3 #3 #3 #2 #2			
Туре	Units	Limit	Spec	Actual	Spec	Actual		
Outline Size-L	mm		2.0±0.2	2.0	2.0+0.2	2.0		
-W	mm		1.640.2	1.6	1.6+0.2	1.6		
#	mm		0.75±0.15	0.75	0.75±0.15	0.75		
Dutput Frequency	KHZ		32,768	32,768	32.768	32,768		
Supply Voltage	V		+3.3±10%	+3.3	+3.3±10%	+3.3		
Temperature Range °C	°C		-40 to +85	-40 to +85	-40 to +85	-40 to +85		
requency Stability	ppm	Max.	±25	125	±25	±25		
Logic Type	-		LVCMOS	LVCMOS	LVCMOS	LVCMOS		
Supply Current, Output Enabled	Ua		60 typ. / 80 max.	59.5	60 typ. / 80 max.	60.2		
Supply Current, Output Disabled	-		10 max.	1.5	10 max.	1.5		
Duty Cycle (Symmetry) %	%	Max.	45 / 55	49.990	45 / 55	49.980		
Rise / Fall Time(10%/90%)	ns	Max.	15.0	3.67/3.20	15.0	3.66/3.25		
Output Voltage "1" Level	ns V	Min.	15.0 90%*VDD	3.07	90% *VDO	3.06/3.25		
Output Voltage "O" Level	v	Max.	90%~YDD	-0.1	90% YV00 10% YV00	-0.1		
		MHX.						
Output Load	pF	-	15	15	15	15		
Start Up Time	ms	Max.	2	0.31	2	0.33		
Storage Temperature Range °C	PC		-55 to +125	-55 to +125	-55 to +125	-55 to +125		