



<b>Title of Change:</b>	Availability of protective tape on cover glass and datasheet updates PYTHON xK and VITA xK family	
<b>Effective date:</b>	May 17, 2018	
<b>Contact information:</b>	Contact your local ON Semiconductor Sales Office	
<b>Type of notification:</b>	This Product Bulletin is for notification purposes only. ON Semiconductor will proceed with implementation of this change upon publication of this Product Bulletin.	
<b>Change category:</b>	<input type="checkbox"/> Wafer Fab Change <input type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input checked="" type="checkbox"/> Other Datasheet update	
<b>Change Sub-Category(s):</b>	<input checked="" type="checkbox"/> Datasheet/Product Doc change <input type="checkbox"/> Manufacturing Site Change/Addition <input type="checkbox"/> Material Change <input type="checkbox"/> Shipping/Packaging/Marking <input type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Product specific change <input type="checkbox"/> Other: _____	
<b>Sites Affected:</b>	ON Semiconductor Sites: Mechelen, Belgium	External Foundry/Subcon Sites: None

**Description and Purpose:**

This document summarizes the recent changes to the datasheet of the PYTHON xK, including the PYTHON 12K, PYTHON 16K and PYTHON 25K products, as well as for the VITA 12K, VITA 16K and VITA 25K (VITA xK family). The creation of additional part numbers which include a protective foil on top of the cover glass of the above mentioned products, while next to this newly available option, some smaller datasheet updates have been done. The changes are listed below, as well as the affected part numbers for which the protective tape will be available from the effective date of this Product Bulletin.

Datasheets of the affected PYTHON and VITA devices can be downloaded from the following websites:

PYTHON xK

<http://www.onsemi.com/PowerSolutions/product.do?id=PYTHON25K>

<http://www.onsemi.com/PowerSolutions/product.do?id=PYTHON16K>

<http://www.onsemi.com/PowerSolutions/product.do?id=PYTHON12K>

VITA xK

<http://www.onsemi.com/PowerSolutions/product.do?id=VITA25K>

<http://www.onsemi.com/PowerSolutions/product.do?id=VITA16K>

<http://www.onsemi.com/PowerSolutions/product.do?id=VITA12k>

**SUMMARY OF CHANGES IN THE DATASHEETS OF PYTHON 12K/16K/25K devices**

- Multiple pages: Removed all references to PYTHON 10K (EOL Q4 2017)
- Multiple pages: Removed all references to binning as this is a non-operational mode in the PYTHON xK devices
- Page 2: Added new Orderable Part Numbers (OPN) for the variants with protective tape on cover glass
- Page 4: Removed all references to a 4.5V power supply in table 4. Incorrect information
- Page 6: Corrected Row overhead time to 2µs (was 1µs)
- Page 17-20: Removed register tables. A reference is added to the PXX\_init.py file accessible under NDA on MyOn
- Page 32: Clarify figure 29 to avoid misunderstandings when using the skipping/subsampling modes
- Page 83: Clarify and correct figure showing the optical centre of the image plane.
- Page 83: Updated the package drawing to show the positioning of the protective tape



**SUMMARY OF CHANGES IN THE DATASHEETS OF VITA 12K/16K/25K devices**

Page 1/2: Added new Orderable Part Numbers (OPN) for the variants with protective tape on cover glass

Page 71: Updated the package drawing to show the positioning of the protective tape

**TIME LINE FOR CONVERSION:**

This PB is effective immediately.

Some of the devices contained in this notice may be part of a product portfolio renewal process or a manufacturing facility closure. ON Semiconductor continually monitors worldwide sales and billings activities on all the products offered to its customers.

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

If purchasing ON Semiconductor image sensors from a distributor, please contact your distributor. If buying directly from ON Semiconductor, contact your local ON Semiconductor sales office or a customer service representative.

**List of Affected Standard Parts:**

WPN	OPN	Description
PYTHON12K	NOIP1SN012KA-GDI	PYTHON 12K, Monochrome, no Protective Tape
PYTHON12K	NOIP1FN012KA-GDI	PYTHON 12K, NIR, no Protective Tape
PYTHON12K	NOIP1SE012KA-GDI	PYTHON 12K, Color, no Protective Tape
PYTHON12K	NOIP1SN012KA-GTI	PYTHON 12K, Monochrome, Protective Tape
PYTHON12K	NOIP1FN012KA-GTI	PYTHON 12K, NIR, Protective Tape
PYTHON12K	NOIP1SE012KA-GTI	PYTHON 12K, Color, Protective Tape
PYTHON16K	NOIP1SN016KA-GDI	PYTHON 16K, Monochrome, no Protective Tape
PYTHON16K	NOIP1FN016KA-GDI	PYTHON 16K, NIR, no Protective Tape
PYTHON16K	NOIP1SE016KA-GDI	PYTHON 16K, Color, no Protective Tape
PYTHON16K	NOIP1SN016KA-GTI	PYTHON 16K, Monochrome, Protective Tape
PYTHON16K	NOIP1FN016KA-GTI	PYTHON 16K, NIR, Protective Tape
PYTHON16K	NOIP1SE016KA-GTI	PYTHON 16K, Color, Protective Tape
PYTHON25K	NOIP1SN025KA-GDI	PYTHON 25K, Monochrome, no Protective Tape
PYTHON25K	NOIP1FN025KA-GDI	PYTHON 25K, NIR, no Protective Tape
PYTHON25K	NOIP1SE025KA-GDI	PYTHON 25K, Color, no Protective Tape
PYTHON25K	NOIP1SN025KA-GTI	PYTHON 25K, Monochrome, Protective Tape
PYTHON25K	NOIP1FN025KA-GTI	PYTHON 25K, NIR, Protective Tape
PYTHON25K	NOIP1SE025KA-GTI	PYTHON 25K, Color, Protective Tape



WPN	OPN	Description
VITA12K	NOIV1SN012KA-GDI	VITA 12K, Monochrome, no Protective Tape
VITA12K	NOIV1SE012KA-GDI	VITA 12K, Color, no Protective Tape
VITA12K	NOIV1SN012KA-GTI	VITA 12K, Monochrome, Protective Tape
VITA12K	NOIV1SE012KA-GTI	VITA 12K, Color, Protective Tape
VITA16K	NOIV1SN016KA-GDI	VITA 16K, Monochrome, no Protective Tape
VITA16K	NOIV1SE016KA-GDI	VITA 16K, Color, no Protective Tape
VITA16K	NOIV1SN016KA-GTI	VITA 16K, Monochrome, Protective Tape
VITA16K	NOIV1SE016KA-GTI	VITA 16K, Color, Protective Tape
VITA25K	NOIV1SN025KA-GDC	VITA 25K, Monochrome, no Protective Tape
VITA25K	NOIV1SE025KA-GDC	VITA 25K, Color, no Protective Tape
VITA25K	NOIV1SN025KA-GTI	VITA 25K, Monochrome, Protective Tape
VITA25K	NOIV1SE025KA-GTI	VITA 25K, Color, Protective Tape

Please be informed that there are Customer Specific parts impacted by this Notification, thus MPN & CPN info will not be reflected in the parts list of this Generic document. Instead please click the link to the addendum PDN copy provided in the email notification to see full list of affected products specific to your company.

**Appendix A: Changed Products**

Product	Customer Part Number
NOIP1FN012KA-GDI	
NOIP1FN016KA-GDI	
NOIP1FN025KA-GDI	
NOIP1SE012KA-GDI	
NOIP1SE016KA-GDI	
NOIP1SE025KA-GDI	
NOIP1SN012KA-GDI	
NOIP1SN016KA-GDI	
NOIP1SN025KA-GDI	
NOIV1SE012KA-GDI	
NOIV1SE016KA-GDI	
NOIV1SE025KA-GDC	
NOIV1SN012KA-GDI	
NOIV1SN016KA-GDI	
NOIV1SN025KA-GDC	