



# Final Product/Process Change Notification

Document #:FPCN24494XA

Issue Date:22 Feb 2023

<b>Title of Change:</b>	Addition of onsemi Tarlac, Philippines for assembly and test of SOIC8NB products				
<b>Proposed First Ship date:</b>	29 May 2023 or earlier if approved by customer				
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Samuel.Sarmiento@onsemi.com">Samuel.Sarmiento@onsemi.com</a>				
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.				
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:Andy.Esteva@onsemi.com">Andy.Esteva@onsemi.com</a>				
<b>Type of Notification:</b>	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>				
<b>Marking of Parts/ Traceability of Change:</b>	Affected parts can be identified by the assembly site code in the traceability code				
<b>Change Category:</b>	Test Change, Assembly Change				
<b>Change Sub-Category(s):</b>	Material Change, Manufacturing Site Addition				
<b>Sites Affected:</b>					
<b>onsemi Sites</b>			<b>External Foundry/Subcon Sites</b>		
onsemi Tarlac, Philippines			None		
<b>Description and Purpose:</b>					
onsemi is announcing that onsemi Tarlac, Philippines has been qualified as assembly and test for SOIC08 NB products.					
The affected products may be manufactured in onsemi Tarlac, or any of the previously qualified assembly and test locations.					
There are no changes to any bill-of-material (BOM) items in the currently qualified locations.					
The planned BOM changes for qualification in onsemi Tarlac, Philippines is shown in the table below:					
	<b>Before Change Description</b>			<b>After Change Description</b>	
<b>Assembly &amp; Test Site</b>	onsemi, Carmona Philippines	STAR	UTAC	onsemi, Carmona Philippines STAR, & UTAC	onsemi Tarlac, Philippines
<b>LeadFrame</b>	Cu based NiPdAu	Cu based NiPdAu	Cu based NiPdAu	NO CHANGE	Cu based leadframe CuAg
<b>Die Attach</b>	CRM-1076WB	ABLESTIK 2200D	ABLESTICK 8200T	NO CHANGE	CRM 1076WB
<b>Bond Wire</b>	Au	Au	Au or Bare Cu or CuPd	NO CHANGE	CuPd
<b>Molding Compound</b>	Sumitomo - G600	Sumitomo - G600	Sumitomo - G600	NO CHANGE	Sumitomo - G700LS
<b>Lead Finish</b>	NiPdAu	NiPdAu	Sn plating or NiPdAu	NO CHANGE	Sn Plating
<b>Note:</b> There is no product marking change and product traceability will be maintained by lot and date code					



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## Reliability Data Summary:

QV DEVICE NAME: CAT25640VI-GT3

PACKAGE: SOIC8 NB (ONC35)

Test	Specification	Condition	Interval	Result
HTOL	TA=125C JA108	TA=150C, bias at 1.2X Nominal (not to exceed Max rated)	1008 hours	0/240
ELFR	AECQ100-008	TA=150C, bias at 1.2X Nominal (not to exceed Max rated)	48 hours	0/2400
HTSL	JESD22-A103	Ta = 150C	1008 hours	0/240
PC	J STD020, JESD22-A113	IR reflow at 260C	-	
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 100% of rated V or 100V max	192 hours	0/255
TC+PC	JESD22-A104	Temp = -65°C to +150°C; for 1000 cycles (or equivalent)	1000cycle	0/300
UHAST+PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96 hours	0/240

## Electrical Characteristics Summary:

Electrical characteristics are not impacted.

## List of Affected Parts:

**Note:** Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

Part Number	Qualification Vehicle
CAT25040VI-GT3	CAT25640VI-GT3
CAT25010VI-GT3	CAT25640VI-GT3
CAT25020VI-GT3	CAT25640VI-GT3
CAT25080VI-GT3	CAT25640VI-GT3
CAT25160VI-GT3	CAT25640VI-GT3
CAT25320VI-GT3	CAT25640VI-GT3
CAT25640VI-G	CAT25640VI-GT3
CAT25640VI-GT3	CAT25640VI-GT3
CAT93C86VI-GT3	CAT25640VI-GT3
CAT93C86BVI-GT3	CAT25640VI-GT3
CAT93C86BVE-GT3	CAT25640VI-GT3
CAT93C76BVI-GT3L	CAT25640VI-GT3
CAT93C76BVI-GT3	CAT25640VI-GT3



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CAT93C76BVE-GT3	CAT25640VI-GT3
CAT93C66VI-GT3	CAT25640VI-GT3
CAT93C46RBVI-GT3	CAT25640VI-GT3
CAT93C46RBVE-GT3	CAT25640VI-GT3
CAT93C46BWI-GT3	CAT25640VI-GT3
CAT93C46BVI-GT3	CAT25640VI-GT3