



Final Product/Process Change Notification

Document #:FPCN26459Z

Issue Date:23 Feb 2025

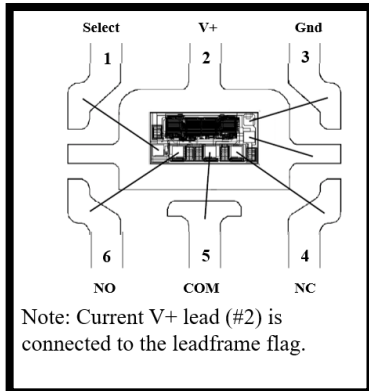
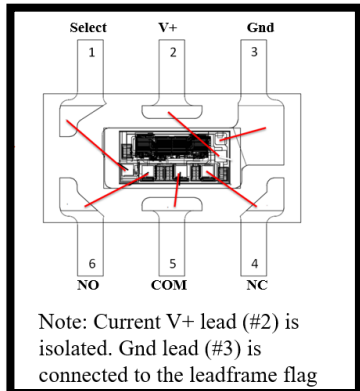
Title of Change:	Lead Frame Design Change for TSOP6 NLVAS4599DTT1G Device at onsemi Seremban, Malaysia.
Proposed Changed Material First Ship Date:	30 Aug 2025 or earlier if approved by customer
Current Material Last Order Date:	N/A <i>Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.</i>
Current Material Last Delivery Date:	N/A <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>
Product Category:	Active components – Integrated circuits
Contact information:	Contact your local onsemi Sales Office
PCN Samples Contact:	Contact your local onsemi Sales Office to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.
Sample Availability Date:	12 Feb 2025
PPAP Availability Date:	28 Mar 2025
Additional Reliability Data:	Contact your local onsemi Sales Office
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com .
Change Category	
Category	Type of Change
Process - Assembly	Change in leadframe dimensions

Description and Purpose:

onsemi is announcing lead frame design change for TSOP6 NLVAS4599DTT1G Device at onsemi Seremban, Malaysia.

The change is to improve the robustness of the products. The change is detailed in the following change table.

There is no change to the orderable part number, and there is no product marking change because of this notification. BOM material information will be identified using the encoded traceability.

	From	To		
LeadFrame Design	<ul style="list-style-type: none">Current V+ lead (#2) is connected to the leadframe flag. <div></div>	<ul style="list-style-type: none">Current V+ lead (#2) is isolated.Gnd lead (#3) is connected to the lead frame flag. <div></div>		
Note: There are no product material changes as a result of this change.				
Reason / Motivation for Change:	Process/Materials Change			
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:	<p>The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded.</p> <p>No anticipated impacts.</p>			
Sites Affected:				
onsemi Sites	External Foundry/Subcon Sites			
onsemi Seremban, Malaysia	None			
Marking of Parts/ Traceability of Change:	Product traceability will be maintained by date code.			
Reliability Data Summary: QV DEVICE NAME: NLVAS4599DTT1G RMS: PACKAGE: TSOP-6 3.00x1.50x0.90, 0.95P				
Test	Specification	Condition	Interval	Results
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260 °C, Pre TC, uHAST, HAST for surface mount pkgs only		0/84
Temperature Cycling	JESD22-A104	Ta= -65°C to + 150°C	1000 cyc	0/84
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/84
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/84



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NOTE: AEC-1pager is attached.

To view attachments:

1. Download pdf copy of the PCN to your computer
2. Open the downloaded pdf copy of the PCN
3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field
4. Then click on the attached file

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**.

Current Part Number	New Part Number	Qualification Vehicle
NLVA54599DTT1G	#NONE	NLVA54599DTT1G