



Final Product/Process Change Notification

Document #:FPCN23658ZO

Issue Date:21 Feb 2022

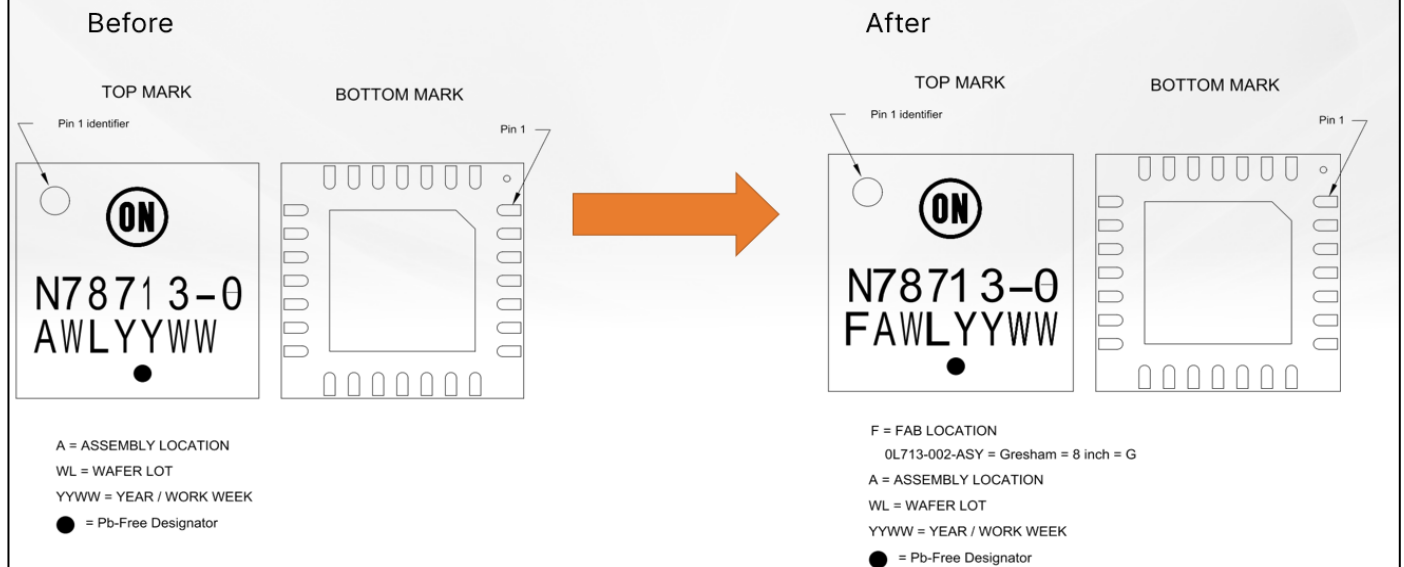
Title of Change:	Wafer fab transfer to onsemi Gresham, Oregon USA from onsemi Fab2, Oudenaarde, Belgium related to Fab2 sale
Proposed Changed Material First Ship Date:	28 Aug 2022 or earlier if approved by customer
Current Material Last Order Date:	31 Mar 2022 #PD24322Z <i>Orders received after the Current 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:	27 Aug 2022 <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 or Jelle.Genne@onsemi.com
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:	07 Mar 2022
PPAP Availability Date:	11 Apr 2022
Additional Reliability Data:	Contact your local onsemi Sales Office or Catherine.DeKeukeleire@onsemi.com
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
Packing/Shipping	Packing/shipping specification change
Process - Wafer Production	Move of all or part of wafer fab to a different location/site/subcontractor, New wafer diameter
Equipment	Production from a new equipment/tool which uses the same basic technology (replacement equipment or extension of existing equipment pool) without change of process.
Data Sheet	Change of datasheet parameters/electrical specification (min./max./typ. values) and/or AC/DC specification
Process - Assembly	Change of mold compound, Change in process technology (e.g., die attach, bonding, moulding, plating, trim and form, lead frame preparation, ...), Change in critical dimensions of package, Change in leadframe dimensions, Change of direct material supplier, Change of product marking

Description and Purpose:

Wafer fab transfer to onsemi Gresham, Oregon USA from onsemi Fab2, Oudenaarde, Belgium related to Fab2 sale. Change of leadframe and mold compound are also included. Part marking will be adjusted. Datasheet will be updated.


	Before Change Description	After Change Description
Fab Site transfer	onsemi Fab2, Oudenaarde, Belgium 6inch	onsemi Gresham, Oregon USA 8inch
LeadFrame	FR0630 (LF 24L QFN5x5 MM 0.65 MM. Pitch SFS)	FR1192 (LF 24L QFN5x5 MM 0.65 MM. Pitch SLP)
Mold Compound	G770HCD	G700LTD
Part Marking	Without Fab Indicator	With Fab Indicator
Data sheet	Revision 1	Revision 2

Marking Changes




Data Sheet Updates

Page 1:
New package and updated marking diagram:




QFN24
CASE 485CS

MARKING DIAGRAM



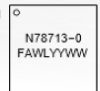
N78713 = Specific Device Code
A = Assembly Location
WL = Wafer Lot
YY = Year
WW = Work Week
• = Pb-Free Package
(Note: Microdot may be in either location)

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QFNW24
CASE 484AF

MARKING DIAGRAM



N78713 = Specific Device Code
F = Fab Indicator
A = Assembly Location
WL = Wafer Lot
YY = Year
WW = Work Week
• = Pb-Free Package
(Note: Microdot may be in either location)

Page 10:
Relaxed limits for TC_LOW parameter:

TOFF Time for Low V _{LED} Voltages	TC_LOW	VLED < VLED_LMT	78	105	120	μs
↓						
TOFF Time for Low V _{LED} Voltages	TC_LOW	VLED < VLED_LMT	72	105	140	μs

Page 30:
Updated Ordering Table:

Table 12. ORDERING INFORMATION

Device	Marking	Package*	Shipping†
NCV78713MVG0R2G	N78713-0	QFN24 5 × 5 with Wettable Flank (Pb-Free)	5,000 / Tape & Reel
NCV78713MVG0G	N78713-0	QFN24 5 × 5 with Wettable Flank (Pb-Free)	60 Units / Tube

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Table 12. ORDERING INFORMATION

Device	Marking	Package*	Shipping†
NCV78713MVG0AR2G	N78713-0	QFNW24 5 × 5 with Step-cut Wettable Flank (Pb-Free)	5,000 / Tape & Reel

7 6/17/21 Public Information

Reason / Motivation for Change:	Quality improvement
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 Oudenaarde, Belgium	UTAC, Thailand
onsemi, Gresham United States	
Marking of Parts/ Traceability of Change:	Traceability guaranteed by datecode



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Reliability Data Summary:

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
NCV78713MW0R2G	NCV78713MWA0R2G	0L713-600