



Final Product/Process Change Notification

Document #:FPCN22966ZS

Issue Date: 14 Dec 2021

Title of Change:	Wafer Fab Capacity Expansion for Trench 6 MOSFET Technology at Global Foundries in New York, US.	
Proposed Changed Material First Ship Date:	14 Jun 2022 or earlier if approved by customer	
Current Material Last Order Date:	05 May 2022 <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:	13 Jun 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 – Discrete components	
Contact information:	Contact your local onsemi Sales Office or Ammar.Anuar@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:	17 Dec 2021	
PPAP Availability Date:	17 Dec 2021	
Additional Reliability Data:	Contact your local onsemi Sales Office or Robert.Baran@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	
Test Flow	Move of all or part of electrical wafer test and/or final test to a different location/site/subcontractor	
Process - Wafer Production	Move of all or part of wafer fab to a different location/site/subcontractor, New wafer diameter	
Description and Purpose:		
This Product Change Notification, is the continuation from FPCN22966ZI, which is intended to increase capacity for onsemi automotive 30V and 40V Trench 6 MOSFET technology products by transferring wafer fabrication for these products to the Global Foundries Fab located in New York, US. The changes include transferring wafer fabrication, back grind and back metal, to Global Foundries, and utilizing 300mm instead of 200mm diameter wafers. And while the assembly location remains unchanged (at onsemi, Seremban, Malaysia), wafer saw and die attach tooling are being updated to accommodate 300mm wafers. There is no change to the orderable part number. There is no product marking change as a result of this change.		
	Before Change	After Change
Wafer Fabrication Site	onsemi Aizu, Japan	Global Foundries, US
Wafer Diameter	200mm (existing sites)	300mm (Global Foundries)
Wafer Probe Site	onsemi, Malaysia	Global Foundries, US
Back Grind, Back Metal Site	onsemi ISMF, Malaysia	Global Foundries, US



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Reason / Motivation for Change:	Source/Supply/Capacity Changes Process/Materials Change																																																		
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:	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. No anticipated impacts.																																																		
Sites Affected:																																																			
onsemi Sites	External Foundry/Subcon Sites																																																		
onsemi Aizu, Japan	Global Foundries East Fishkill, New York, United States																																																		
onsemi Seremban, Malaysia																																																			
onsemi, ISMF Malaysia																																																			
Marking of Parts/ Traceability of Change:	Material will be traceable with ONs lot trace code & tracking																																																		
Reliability Data Summary:																																																			
QV DEVICE NAME (DIE QUAL) NVMFS5C404N																																																			
RMS: 66099, 67744, 67566, 67567																																																			
PACKAGE: SO8FL-HE																																																			
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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/s.																																																			



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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
NVTFS004N04CTAG	NA	NVMFS5C404NLT1G, NVMFS5C404NWFT3G-K
NVMFS5C420NT1G	NA	NVMFS5C404NLT1G, NVMFS5C404NWFT3G-K
NVMFS5C406NT1G	NA	NVMFS5C404NLT1G, NVMFS5C404NWFT3G-K
NVMFS4C306NT1G	NA	NVMFS5C404NLT1G, NVMFS5C404NWFT3G-K