



Initial Product/Process Change Notification

Document #: IPCN25374ZA

Issue Date: 10 Oct 2023

Title of Change:	Galvanic Isolation Process 2nd source from "Gresham" to "Gresham or Aizu"	
Proposed Changed Material First Ship Date:	04 Nov 2024 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 or Joswald.Macabale@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.	
Additional Reliability Data:	Contact your local onsemi Sales Office or Dongsun.Park@onsemi.com	
Type of Notification:	This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 6 months prior to implementation of the change. In case of questions, contact < PCN.Support@onsemi.com >.	
Change Category		
Category	Type of Change	
Process - Wafer Production	Move of all or part of wafer fab to a different location/site/subcontractor	
Description and Purpose:		
onsemi would like to notify its customers of its intent to qualify our Isolated Gate Driver technology at our onsemi Aizu, Japan wafer FAB. The qualification enables expanded capacity for this technology. All products listed in this IPCN, upon completion of qualification and the FPCN, may be dual sourced from either the current onsemi wafer FAB at onsemi Gresham, US or onsemi Aizu, Japan.		
	From	To
Fab Site	onsemi, Gresham US	onsemi, Aizu Japan or onsemi, Gresham US
There are no product marking changes as a result of this change		

Reason / Motivation for Change:	Capacity improvement		
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:	The device will be qualified and validated based on the same Product Specification. No anticipated impacts.		
Sites Affected:			
onsemi Sites		External Foundry/Subcon Sites	
onsemi Aizu, Japan		None	
Marking of Parts/ Traceability of Change:	Product that is produced out of onsemi Aizu, Japan can be identified on the label by referring to the "Diffused In" location. If produced out of onsemi Aizu, Japan, it will show JP. If it is produced out of onsemi Gresham, US, it will show US		
Qualification Plan:			
QV DEVICE NAME : NCV51561 RMS : 90767 PACKAGE : SOIC16 WB			
Test	Specification	Condition	Interval
High Temperature Operating Life	JESD22-A108	Ta=125°C, Vcc = 1.2 x nominal	1008 hrs
Early Life Failure Rate	AECQ100-008	Ta=125°C, Vcc = 1.2 x nominal	48 hrs
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260 °C	-
Temperature Cycling	JESD22-A104	Ta= -55°C to +125°C	1000 cyc
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
Power Temperature Cycling	JESD22-A105	Ta= -40°C to +125°C	1000 cyc
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	
NCV51563CADWR2G	NA	NCV51561BBDWR2G	
NCV51561BBDWR2G	NA	NCV51561BBDWR2G	
NCV51561DADWR2G	NA	NCV51561BBDWR2G	
NCV51563BBDWR2G	NA	NCV51561BBDWR2G	



Appendix A: Changed Products

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DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCV51563CADWR2G		NCV51561BBDWR2G	NA	
NCV51561DADWR2G		NCV51561BBDWR2G	NA	
NCV51561BBDWR2G		NCV51561BBDWR2G	NA	