Initial Product/Process Change Notification

Document #:IPCN25332ZA
Issue Date:04 Oct 2023

Title of Change:	Galvanic Isolation Process 2nd source from "Gresham" to "Gresham or Aizu"
Proposed Changed Material First Ship Date:	16 Oct 2024 or earlier if approved by customer
Current Material Last Order Date:	N/A *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*.
Current Material Last Delivery Date:	N/A *The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory*
Product Category:	Active components – Integrated circuits
Contact information:	Contact your local onsemi Sales Office or Izel.Rodriguez@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 Nicky.Siu@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, Gresham US or onsemi, Aizu Japan

There is no product marking change as a result of this change.

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Reason / Motivation for Change:	Process/Materials Change
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:	Part marking shows assembly site and assembly date. Assembly lot (marked on reel and shipping boxes) is traceable to source wafer fab.

Reliability Data Summary:

QV DEVICE NAME : NCV57252DWR2G
RMS : 90740
PACKAGE : SOIC16 WB

Test	Specification	Condition	Interval
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs
Early Life Failure Rate	AECQ100-008	Ta=125°C, 100 % max rated Vcc	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= -65°C to +150°C	1000 cycs
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

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
NCV57540DWKR2G	NA	NCV57252DWR2G
NCV57252DWR2G	NA	NCV57252DWR2G