

## Product Change Notice (PCN)

**Subject:** Secondary Fab Location for Renesas Listed Products ISL99360\*, ISL99380\*, ISL99390\*, ISL99392\*, ISL99580\*, RAA220075\*, (ADDED in Revision A RAA2201054\*)

**Publication Date:** 7/31/2021

**Effective Date:** 10/31/2021

### Revision Description:

Initial Revision (sent 6/22/21): No Change to any products in publication.

Revision A (sent 7/31/21): Two products ADDED to list for notification.

### Description of Change:

This notice is to inform you that Renesas Electronics America will begin using Vanguard Fab2 as a secondary wafer fabrication facility for the products listed below;

### Revision A products added;

RAA2201054GNP#HB0	RAA2201054GNP#HB1
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### Reason for Change:

The Vanguard Fab2 wafer fabrication site is being added to increase capacity and meet customer delivery requirements. There is no change to the use of existing wafer fabrication site Vanguard Fab3. There is no change to the assembly or test sites.

### Impact on fit, form, function, quality & reliability:

The change will have no other impact on the form, fit, function, quality, reliability and environmental compliance of the devices.

### Product Identification:

There will be no change in the external marking of the packaged parts. Product affected by this change is identifiable via Renesas Electronics America Inc. internal traceability system. Shipments with date-codes of 10/1/2021 forward will contain Fab2 and Fab3 material. All shipments with date-codes prior to 10/1/2021 will contain only Fab3 material.

**Qualification status:** Complete, see Appendix A. The ISL99390 was selected as qualification vehicle because it is the largest HS and LS FET.

**Sample availability:** 8/1/2021

**Device material declaration:** Available upon request

*Note:*

1. *Acknowledgement must be received by Renesas within 30 days or Renesas will consider the change as approved.*
2. *If timely acknowledgement is provided by Customer, then Customer shall have 90 days from the date of receipt of this PCN to make any objections to this PCN. If Customer fails to make objections to this PCN within 90 days of the receipt of the PCN then Renesas will consider the PCN changes as approved.*
3. *If customer cannot accept the PCN then customer must provide Renesas with a last time buy demand and purchase order.*

For additional information regarding this notice, please contact your regional change coordinator (below)
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Americas: <a href="mailto:PCN-US@Renesas.COM">PCN-US@Renesas.COM</a>	Europe: <a href="mailto:PCN-EU@Renesas.COM">PCN-EU@Renesas.COM</a>	Japan: <a href="mailto:PCN-JP@Renesas.COM">PCN-JP@Renesas.COM</a>	Asia Pac: <a href="mailto:PCN-APAC@Renesas.COM">PCN-APAC@Renesas.COM</a>
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Appendix A - Qualification Results for ISL99390 on Vanguard Fab2.

Qualification Results						
Stress	Test Method	Product	Wafer Fab	Sample Size	# of Lots	Result
High Temp Operating Life	JESD22-A108F 125C	ISL99390FRZ- TR5935	VIS Fab2	240	3	1000 Hours - PASS
Biased HAST	JESD22-A110E 130C, 85%RH	ISL99390FRZ- TR5935	VIS Fab2	240	3	96 Hours - PASS
Unbiased HAST	JESD11-A118B.01 130C, 85%RH	ISL99390FRZ- TR5935	VIS Fab2	240	3	96 Hours - PASS
Storage Life	JESD22-A103E 150C	ISL99390FRZ- TR5935	VIS Fab2	240	3	1000 Hours - PASS
Moisture Sensitivity	J-STD-020E 30C, 60%RH	ISL99390FRZ- TR5935	VIS Fab2	66	3	PASS
Temperature Cycle	JESDES22-104F -40-125C	ISL99390FRZ- TR5935	VIS Fab2	240	3	1000 Cycles - PASS
Product Electrical Characterization	Equivalence with VIS Fab3	ISL99390FRZ- TR5935	VIS Fab2	--	--	PASS
ESD HBM	JS-001-2017	ISL99390FRZ- TR5935	VIS Fab2	9	3	2000V - PASS
ESD CDM	JS-002-2018	ISL99390FRZ- TR5935	VIS Fab2	9	3	750V - PASS
Latch-up Characterization	Qualified by Extension per JEDEC Class II Level A and the previous LU test results.					