

Product Change Notice (PCN)

Subject: Secondary Fab Location for Renesas Listed Smart Power Stage and Mobile Battery Charger Products

Publication Date: 4/21/2022

Effective Date: 7/21/2022

Revision Description:

Initial Release

Description of Change:

This notice is to inform you that Renesas Electronics America will begin using Vanguard Fab9B as a secondary wafer fabrication facility for the products listed below. Products are currently fabricated in Vanguard Fab9A.

ISL66225W	ISL9241IRTZ-TK	ISL99360FRZ-TS2568	ISL99390HRZ-TR5935
ISL66226W	ISL95338HRTZ	ISL99360FRZ-TS2696	ISL99392BFRZ-TR5935
ISL9238BHRTZ	ISL95338HRTZ-T	ISL99360FRZ-TS2795	ISL99392FRZ-TR5935
ISL9238BHRTZ-T	ISL95338HRTZ-T7A	ISL99360HRZ-T	RAA220075RGNP#HB0
ISL9238BIRTZ	ISL95338HRTZ-TK	ISL99360HRZ-TS2709	RAA220075RGNP#HB1
ISL9238BIRTZ-T	ISL95338HRTZ-TS2778	ISL99360HRZ-TS2794	RAA220075RSOBGNP#HB0
ISL9241HRTZ	ISL95338IRTZ	ISL99380BFRZ-TR5935	RAA2201054GNP#HB0
ISL9241HRTZ-T	ISL95338IRTZ-T	ISL99380FRZ-TR5935	RAA2201054GNP#HB1
ISL9241HRTZ-T7A	ISL95338IRTZ-TK	ISL99380FRZ-TR5953	RAA489000A3GNP#AA0
ISL9241HRTZ-TK	ISL9538BHRTZ	ISL99380HRZ-TR5935	RAA489000A3GNP#HA0
ISL9241HRTZ-TS2701	ISL9538BHRTZ-T	ISL99390BFRZ-TR5935	RAA489000ARGNP#AA0
ISL9241HRTZ-TS2778	ISL9538BHRTZ-TS2701	ISL99390FRZ-TR5935	RAA489000ARGNP#HA0
ISL9241HRTZ-TS2780	ISL9538BHRTZ-TS2778	ISL99390FRZ-TR5948	RAA489000AS03GNP#HA0
ISL9241IRTZ	ISL99360BFRZ-T	ISL99390FRZ-TR5953	
ISL9241IRTZ-T	ISL99360FRZ-T	ISL99390FRZ-TR5992	

Reason for Change:

The Vanguard Fab9B 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 Fab9A. 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.

Qualification status: In process, see Appendix A for the Smart Power Stage products. See Appendix B for the Mobile Battery Charger products

Sample availability: 8 weeks from order request

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)			
Americas: PCN-US@Renesas.COM	Europe: PCN-EU@Renesas.COM	Japan: PCN-JP@Renesas.COM	Asia Pac: PCN-APAC@Renesas.COM

Appendix A - Qualification Results/Plan for ISL99390* / ISL99360* on Vanguard Fab9B for the Smart Power Stage products.

Qualification Results						
Stress	Test Method	Product	Wafer Fab	Sample Size	# of Lots	Result
High Temp Operating Life	JESD22-A108F 125C	ISL99390	VIS Fab9B	77	1	168hrs= PASS (ISL99390/60)
		ISL99360		77	1	500hrs= PASS (ISL99390/60) 1000hrs=5/2/22 (ISL99390/60)
Biased HAST	JESD22-A110E 130C, 85%RH	ISL99390	VIS Fab9B	240	3	96 Hours - PASS
Unbiased HAST	JESD11-A118B.01 130C, 85%RH	ISL99390	VIS Fab9B	240	3	96 Hours - PASS
Storage Life	JESD22-A103E 150C	ISL99390	VIS Fab9B	240	3	1000 Hours - 4/21/22
Moisture Sensitivity Level 3	J-STD-020E 30C, 60%RH	ISL99390	VIS Fab9B	24	3	PASS
Temperature Cycle	JESDES22-104F -65-150C	ISL99390	VIS Fab9B	240	3	200 Cycles - PASS 500 Cycles - 4/27/22
Product Electrical Characterization	Equivalence with VIS Fab9A	ISL99390	VIS Fab9B	30	3	PASS
ESD HBM	JS-001-2017	ISL99390	VIS Fab9B	9	3	2000V - PASS
		ISL99360		9	3	2000V - PASS
ESD CDM	JS-002-2018	ISL99390	VIS Fab9B	9	3	750V - PASS
		ISL99360		9	3	750V - PASS
Latch-up Characterization	200mA @125C	ISL99390	VIS Fab9B	6	3	PASS
		ISL99360		6	3	PASS

Appendix B - Qualification Results/Plan for ISL2941* / ISL9238B* / ISL95338* / RAA489000 on Vanguard Fab9B for the Mobile Battery Charger products.

Qualification Results						
Stress	Test Method	Product	Wafer Fab	Sample Size	# of Lots	Result
High Temp Operating Life	JESD22-A108F 125C	ISL9241	VIS Fab9B	77	1	All 4 products schedule below; 168 hrs - 4/27/22 500 hrs - 5/11/22 1000 hrs - 6/1/22
		ISL9238B		77	1	
		ISL95338		77	1	
		RAA489000		77	1	
Biased HAST	JESD22-A110E 130C, 85%RH	ISL9241	VIS Fab9B	231	3	96 hrs - 5/16/22
		ISL9238B		231	3	96 hrs - 5/16/22
		RAA489000		231	3	96 hrs - 5/16/22
Unbiased HAST	JESD11-A118B.01 130C, 85%RH	ISL9241	VIS Fab9B	231	3	96 hrs - 5/3/22
		ISL9238B		231	3	96 hrs - 5/3/22
		RAA489000		231	3	96 hrs - 5/3/22
Storage Life	JESD22-A103E 150C	ISL9241	VIS Fab9B	231	3	1000 hrs - 6/1/22
		ISL9238B		231	3	1000 hrs - 6/1/22
		RAA489000		231	3	1000 hrs - 6/1/22
Moisture Sensitivity Level 3	J-STD-020E 30C, 60%RH	ISL9241	VIS Fab9B	66	3	PASS
		ISL9238B		66	3	PASS
		RAA489000		66	3	PASS
Temperature Cycle	JESDES22-104F -65-150C	ISL9241	VIS Fab9B	231	3	500 Cycles - 5/6/22
		ISL9238B		231	3	500 Cycles - 5/6/22
		RAA489000		231	3	500 Cycles - 5/6/22
Product Electrical Characterization	Equivalence with VIS Fab9A	ISL9241	VIS Fab9B	30	3	PASS
		ISL9238B		30	3	PASS
		ISL95338		30	3	PASS
		RAA489000		30	3	PASS
ESD HBM	JS-001-2017	ISL9241	VIS Fab9B	9	3	2000V - 4/29/22
		ISL9238B		9	3	2000V - 4/29/22
		ISL95338		9	3	2000V - 4/29/22
		RAA489000		9	3	2000V - 4/29/22
ESD CDM	JS-002-2018	ISL9241	VIS Fab9B	9	3	750V - 4/29/22
		ISL9238B		9	3	1000V - 4/29/22
		ISL95338		9	3	1000V - 4/29/22
		RAA489000		9	3	1000V - 4/29/22
Latch-up Characterization	Class II Level A 100mA@100C	ISL9241	VIS Fab9B	6	3	5/6/22
		ISL9238B		6	3	5/6/22
		ISL95338		6	3	5/6/22
		RAA489000		6	3	5/6/22