

## Product Change Notice (PCN)

**Subject:** Design change to Renesas product ISL2111\*

**Publication Date:** 10/6/2023

**Effective Date:** 1/6/2024

### Revision Description:

Initial Release

### Description of Change:

This notice is to inform you that Renesas Electronics America has made a design change to the following products;

ISL2111ABZ	ISL2111BR4Z	ISL2111ARTZ-T
ISL2111AR4Z	ISL2111ABZ-T	ISL2111BR4Z-T
ISL2111ARTZ	ISL2111AR4Z-T	ISL2111W

### Reason for Change:

This is a 7 mask layer change to replace the PLDD resistor in the ULVO circuit with a standard poly resistor having the same value. The PLDD resistor was heavily influenced by typical fab variations, introducing too much variability within the circuit. The poly resistor which is replacing the PLDD is common to the rest of the design and is more robust. The change has no impact to any other functionality.

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

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

### Product Identification:

Product affected by this change is identifiable via Renesas Electronics America internal traceability system. Product affected by design will be identifiable by date-code 2337 (Year 2023, Week 37) and newer .

**Qualification status:** Complete, see Appendix A.

**Sample availability:** 10/31/2023

**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: <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>

## Appendix A - Qualification Results for ISL2111\* design change.

Stress	Spec Reference	Test Method	Product	Sample Size	#of lots	Results
HTOL	JESD22-A108	125C, 48Hr	ISL2111ABZ	1500	3	PASS
HTOL	JESD22-A108	125C, 1000Hr	ISL2111ABZ	160	2	PASS
HTOL	JESD22-A108	125C, 1000Hr	ISL2111ABZ	80	1	PASS
ESD-HBM	JS-001-2017	2000V	ISL2111ABZ	3	3	PASS
ESD-CDM	JS-002-2018	750V	ISL2111ABZ	3	3	PASS
Latch-up	JESD78F	CLASS II, 125C	ISL2111ABZ	3	1	PASS
ESD-HBM	JS-001-2017	2000V	ISL2111ABZ-QBE	3	3	QBE
ESD-CDM	JS-002-2018	750V	ISL2111ARTZ	3	3	PASS
Latch-up	JESD78F	CLASS II, 125C	ISL2111ABZ-QBE	3	1	QBE
* QBE: Qualified By Equivalence						