

Product Change Notice (PCN)

Subject: Design change to Renesas product ISL8117*

Publication Date: 12/18/2023

Effective Date: 3/18/2024

Revision Description:

Rev1: Administrative change only affecting the PDF version sent previously. Removed incorrect part number ordering reference under “Sample Availability” section in the PDF version. Word file was correct.

Description of Change:

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

ISL8117A-LDEM02Z	ISL8117AEVAL2Z	ISL8117DEM03Z	ISL8117FRZ-T
ISL8117ADEM01Z	ISL8117AFRZ	ISL8117DEM04Z	ISL8117FVEZ
ISL8117ADEM03Z	ISL8117AFRZ-T	ISL8117EVAL1Z	ISL8117FVEZ-T
ISL8117ADEM04Z	ISL8117DEM01Z	ISL8117EVAL2Z	
ISL8117AEVAL1Z	ISL8117DEM02Z	ISL8117FRZ	

Reason for Change:

This is a 3 mask layer change to address a floating node design error which could damage the device if the EN pin is held low in disabled state. When power is supplied to VIN and the EN pin is low, a leakage path can occur which may cause the floating node to rise to an unsafe level. This has been addressed by pulling this node to GND when the EN pin is low . 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 change will be identifiable by date-code.

Qualification status: Complete, see Appendix A.

Sample availability: 12/18/2023

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

Appendix A - Qualification Results for design change.

Stress	Spec Reference	Test Method	Product	Sample Size	# of Lots	Result
HTOL	JESD22-A108	125C, 168hr	ISL8117AFRZ-T	80	1	Pass
ESD HBM	JS-001-2023	Refer to spec	ISL8117AFRZ-T	3	1	Pass 3KV
ESD CDM	JS-002-2018	Refer to spec	ISL8117AFRZ-T	3	1	Pass 2KV
Latchup	JESD78F	100mA, 125C	ISL8117AFRZ-T	3	1	Pass
ATE Characterization	NA	-40, 25, 125C	ISL8117AFRZ-T	26	1	Pass
ATE Characterization	NA	25C	ISL8117AFRZ-T	106	1	Pass
ATE Characterization	NA	25C	ISL8117FRZ-T	995	1	Pass