

## Product Change Notice (PCN)

**Subject:** Product Improvement – Design Change for Listed ISL94216IRZ\* Products

**Publication Date:** 5/12/2021

**Effective Date:** 8/12/2021

### Revision Description:

Initial Release

Note: PCN21015 published 3/4/2021 addressed associated datasheet change.

### Description of Change:

This notice is to advise our customers of a design revision for the listed ISL94216IRZ\* products. This is a product improvement with changes below;

1. Discharge short circuit response time. Change reduces the time to shut off the FETs from ~130uS to ~20uS.
2. Discharge short circuit thresholds. Reducing the thresholds and step size in half. Step size will go from 80mV to 40mV, reducing the threshold from 80A to 40A with a 1mOhm sense resistor.

Products impacted by the change are:

ISL94216IRZ      ISL94216IRZ-T7      ISL94216IRZ-T      ISL94216EVKIT1Z

### Reason for Change:

Change made to improve performance and customer satisfaction. A minor design revision was made in metal layers.

### 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:** Complete, see appendix A.

**Sample availability:** 8/12/2021

**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)			
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 to verify change.

Qualification Results					
Stress	Test Method	Product	Sample Size	# of Lots	Result
High Temperature Operating Life (HTOL)	JESD22-A108	ISL94216	80	1	1000hr Pass