

## Product Change Notice (PCN)

**Subject:** Product Improvement – Design Change for Listed ISL69144\* and ISL69147\* Products

**Publication Date:** 3/6/2018

**Effective Date:** 6/6/2018

**Revision Description:**

Initial Release

**Description of Change:**

This notice is to advise our customers of a design revision for the listed ISL69144\* and ISL69147\* products. This change affects the SVI2 bus interface logic to ensure a correct VOTFC signal occurs in all situations.

Products impacted by the change are:

|                     |                  |                     |
|---------------------|------------------|---------------------|
| ISL69147IRAZ-T      | ISL69144IRAZ     | ISL69144IRAZ-TR5744 |
| ISL69147IRAZ-T7A    | ISL69144IRAZ-T   |                     |
| ISL69147IRAZ-TR5744 | ISL69144IRAZ-T7A |                     |

**Reason for Change:**

In a narrow range of conditions, the ISL69144/7 can drop a VOTFC signal causing the CPU to hang. This can occur when a pre-emptive VID up command is issued while the controller is ramping down to a new VID level. If the decaying output voltage is at the same value as the new VID when it is received, the VOTFC will be dropped.

**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:** 3/6/2018

**Device material declaration:** Available upon request

*Questions or requests pertaining to this change notice, including additional data or samples, must be sent to Renesas Electronics America Inc. within 30 days of the publication date.*

| 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

| Qualification Results                  |             |              |             |           |        |
|--|-------------|--------------|-------------|-----------|--------|
| Stress                                 | Test Method | Product      | Sample Size | # of Lots | Result |
| High Temperature Operating Life (HTOL) | JESD22-A108 | ISL69144IRAZ | 84          | 1         | Pass   |
| High Temperature Operating Life (HTOL) | JESD22-A108 | ISL69147IRAZ | 84          | 1         | Pass   |