

## Product Change Notice (PCN)

**Subject:** Product Improvement - Design and Datasheet Change for the Listed ISL9238\*, ISL9538HRTZ\* and ISL88738HRTZ\* Products

**Publication Date:** 6/1/2018

**Effective Date:** 9/1/2018

**Revision Description:**

Initial Release

**Description of Change:**

This notice is to advise our customers of a minor, design & datasheet revision for the listed products. The design change adds trim capability to the Way Overcurrent (WOC) protection feature on this family of battery charger ICs.

ISL88738HRTZ	ISL9238HRTZ-T7A	ISL9238IRTZ	ISL9538HRTZ-TK
ISL88738HRTZ-T	ISL9238HRTZ-TK	ISL9238IRTZ-T	ISL9538HRTZ-TS2778
ISL9238HRTZ	ISL9238HRTZ-TKS2568	ISL9538HRTZ	
ISL9238HRTZ-T	ISL9238HRTZ-TS2780	ISL9538HRTZ-T	

**Reason for Change:**

The WOC feature is susceptible to mis-match in the resistor dividers used, resulting in an input offset at the comparator. This trim provides capability to remove the incorrect offset which is needed to improve protection and to sustain the continuity of supply for the listed products. Please refer Appendix A for datasheet change details regarding the WOC feature. The updated data sheet is available on the Renesas Electronics America web site at: [ISL9238 Datasheet](#). For the ISL9538HRTZ and ISL88738HRTZ\* data sheet, please contact your local sales office.

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

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

**Product Identification:**

Product affected by this change is identifiable via Renesas Electronics America Inc. internal traceability system. Effective for all date codes after 1827.

**Qualification status:** Minor change, not qualification required, electrical validation completed.

**Sample availability:** 6/1/2018

**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:

From:

PROTECTION						
VSYS Overvoltage Rising Threshold		MaxSystemVoltage register value = 8.4V	<b>8.95</b>	9.15	<b>9.35</b>	V
VSYS Overvoltage Hysteresis			<b>250</b>	400	<b>550</b>	mV
Adapter Way Overcurrent Rising Threshold (Note 9)		$R_{s1} = 20m\Omega$	<b>7.5</b>	12	<b>18</b>	A
Adapter Way Overcurrent Hysteresis			<b>5</b>	6.6	<b>8</b>	A
Battery Discharge Way Overcurrent Rising Threshold (Note 9)		$R_{s2} = 10m\Omega$	<b>10</b>	20	<b>32</b>	A
Battery Discharge Way Overcurrent Hysteresis (Note 9)			<b>7.5</b>	9	<b>10.5</b>	A

To:

WOC

New Datasheet

Protection						
VSYS OV Rising Threshold		MaxSystemVoltage register value = 8.4V	8.95	9.15	9.35	V
VSYS OV Hysteresis			250	400	550	mV
Adapter WOC		RS1=20mOhms and VCSIP range 5V to 20V	7.5	16	25	A
Battery Discharge WOC		RS2=10mOhms and VCSOP range 4V to 16V	10	21	33	A