

Product Change Notice (PCN)

Subject: Introduce alternate assembly facility of the listed Renesas ODFN packaged products

Publication Date: 04/23/2021

Effective Date: 7/22/2021

Revision Description:

Initial Release

Description of Changes:

Alternate assembly facility of the listed Renesas ODFN packaged products

- *Advanced Semiconductor Engineering, Chung Li, Taiwan R.O.C (ASECL)*

Affected Device List

ISL29020IROZ-T7	ISL29011IROZ-T7S2724
ISL29020IROZ-T7S2568	ISL29011IROZ-T7S2726
ISL29020IROZ-T7S2722	ISL29011IROZ-T7S2728
ISL29033IROZ-T7	ISL29023IROZ-T7
ISL29033IROZ-T7S2722	ISL29023IROZ-T7S2568
ISL29033IROZ-T7S2744	ISL29023IROZ-T7S2722
ISL29038IROZ-T7	ISL29023IROZ-T7S2744
ISL29038IROZ-T7S2426	ISL29023IROZ-T7S2766
ISL29038IROZ-T7S2764	ISL29028AIROZ-T7
ISL29101IROZ-T7	ISL29028AIROZT7S2568
ISL29011IROZ-T7	ISL29028AIROZT7S2720
ISL29011IROZ-T7S2426	ISL29028AIROZT7S2724
ISL29011IROZ-T7S2720	ISL29028AIROZT7S2744
ISL29011IROZ-T7S2722	

Reason for Change:

This notice is to inform you that Renesas Electronics America (REA) will begin to use ASECL as alternate assembly facility of the listed Renesas ODFN (Optical Dual Flat No Lead) packaged products.

The existing ODFN facility Dominant Semiconductors, Melaka, Malaysia (DSM) has officially announced discontinue ODFN assembly. As such, REA will discontinue the use of the existing ODFN facility, Dominant (DSM) effective on June 15th, 2021.

ASECL is existing assembly supplier for Renesas. Adding assembly site will expand current

capabilities and capacities to optimize Renesas’s ability to meet customer’s delivery requirements. ASECL facility is ISO9001:2015 and IATF 16949:2016 certified.

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

The assembly qualification plan is designed using AEC, JEDEC and other applicable industry standards to confirm there is no impact to form, fit, function or interchangeability of the product. A summary of the qualification plan and results will be provided for reference. Please refer Appendix A. The remainder of the manufacturing operations (wafer fabrication, package level electrical test, etc) will continue to be processed to previously established manufacturing flow.

Product Identification:

Product affected by this change is identifiable via Renesas’s internal traceability system. In addition, product assembled at ASECL may also be identified by the assembly site code (country of assembly) when marked on the devices. The site code for product assembled at

#	Assembly Site	Site Code
1	ASECL	U

Customers may expect to receive product from the current facilities or ASECL facilities until the existing inventory is depleted or earlier with customer’s approval.

- Qualification status:** Completed, see attached
- Sample availability:** 5/20/2021
- Device material declaration:** Available upon request

Note : Sample is available 05/20/2021 onwards, and subject to availability. Customer may expect 1 – 2 months for sample replenishment.

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

For additional information regarding this notice, please contact your regional change coordinator (below)			
Americas: PCN-US@RENEASAS.COM	Europe: PCN-EU@RENEASAS.COM	Japan: PCN-JP@RENEASAS.COM	Asia Pac: PCN-APAC@RENEASAS.COM

Appendix A - Qualification Result

Test Description	Condition	ISL29020IROZ-T7S2705 6 Lead ODFN 2.1mm x 2.0mm x 0.7mm Package (0.65mm Pitch)	ISL76683AROZ 6 Lead ODFN 2.1mm x 2.0mm x 0.70mm Package (0.65mm Pitch)
Moisture Sensitivity Classification		N=44 Acc=0 L3 Pb-Free	N=44 Acc=0 L3 Pb-Free
Early Life Failure Rate +125°C	48 hours	N=2400 Acc=0	N=2400 Acc=0
High Temperature Operating Life (HTOL) +125°C	168, 500, 1000 hours	N=240 Acc=0	N=240 Acc=0
Bias High Accelerated Stress Test (b-HAST) +110°C / 85% RH	264 hours	N=240 Acc=0	N=240 Acc=0
Unbias High Accelerated Stress Test (uHAST) +110°C / 85% RH	264 hours	N=240 Acc=0	N=240 Acc=0
Hot Temperature Storage (HTS) +125°C	168, 500, 1000 hours	N=50 Acc=0	N=50 Acc=0
Temperature Cycling Test (TCT) -55°C / +125°C	200, 500, 1000 cycles	N=240 Acc=0	N=240 Acc=0

 Completed and Passed
 Qualified by Extension (QBE)