

Product Change Notice

(PCN tracking number: CST-R2-AJ129 Rev.1.0)

August 1, 2018

To: Valued Renesas Customer

Renesas Product Standard SRAM products.

Summary:

Change Description: **Assembly site transfer and material change for Renesas SRAM products assembled in Renesas Semiconductor (Beijing) Co., Ltd.**

Reason for Change: Assembly site transfer to serve the objective of stable supply
Assembly material change to serve the objective of stable supply and further improve mounting reliability

Identification: Identifiable by the orderable part name marked on a shipping label

Anticipated Impact:

- Assembly material, die thickness
- Moisture sensitivity level
(Affected package type: 28pin-SOP, 52pin- μ TSOP, 36pin-SOJ, 44pin-SOJ)
- Packing Specification (Affected packing type: Magazine, Tape & Reel)

Schedule: 52pin- μ TSOP, 36pin-SOJ, 44pin-SOJ : June 2019
28pin-SOP, 32pin-SOP : November 2019

Supplemental Information: Refer to pp. 3 - 6 in this notification and the attachment (Appendix for CST-R2-AJ129)

Contact: Renesas Electronics Corporation
Broad-based Solution Business Unit, Industrial Analog & Power Business Division,
Analog Products Department, Standard Memory Products Section

Attachments: Appendix for CST-R2-AJ129

In case of any questions, please contact your Renesas sales representative.

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 acknowledgement of this PCN in which to make any objections to the PCN. If Customer fails to make objections to this PCN within 90 days of the acknowledgement 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.

Customer Response (PCN tracking number: CST-R2-AJ129)

Please response in the case you could not accept this PCN.
(to be returned by email or mail)

Company: _____

Name & Position: _____

Email: _____

Phone: _____

Date: _____

Signature of customer

The reason why you could not accept this PCN (please comment below);

1. Background of Change

Renesas announces assembly site transfer and material change for Renesas SRAM products assembled in Renesas Semiconductor (Beijing) Co., Ltd. The reasons of these changes are as follows:

- Assembly site transfer to serve the objective of stable supply
- Assembly material change to serve the objective of stable supply and further improve mounting reliability

In addition, packing specification will be changed for ease of procurement.

We greatly appreciate your understanding and cooperation in this matter.

2. Details of Change

Details of change are described according to each package type in the following.

(1) Affected package type : 32pin-SOP

Affected parts : R1LP0108ESN-5SI, R1LV0108ESN-5SI, R1LP0408DSP-5SI, RMLV0408EGSP-4S2

Comparison Table

Item		Pre-change	Post-change	
Assembly	Site Name	Renesas Semiconductor (Beijing) Co., Ltd.	Greatek Electronics Inc.	
	Site Location	China	Taiwan	
	Material	Base Metal of Lead Frame	Cu	No change
		Lead Plating	Sn	No change
	Marking on package surface	Current specification Refer to the attachment.	No change	
Moisture Sensitivity Level		MSL3	No change	
Packing Specification	Magazine (Tube)	Current Specification	New Specification	
		Dimensions of Magazine will be changed. Refer to the attachment.		
	Tape & Reel	Current Specification	New Specification	
		Dimensions of emboss tape will be changed. Refer to the attachment.		

Before and after this change,

- Package form, fit and pin assignment are unchanged.
- Along with this site change, the inner lead form of lead frame and die thickness will be changed, while base metal, lead plating and the moisture sensitivity level are unchanged.
- The details appear in the attachment for CST-R2-AJ129.

Post-change products are completely compatible with pre-change from electrical characteristics, reliability and quality level perspectives.

(2) Affected package type : 28pin-SOP, 52pin- μ TSOP, 36pin-SOJ, 44pin-SOJ

Affected parts : R1LP5256ESP-5SI, R1LV5256ESP-5SI

RMLV0816BGSD-4S2, RMLV1616AGSD-5S2

R1RP0408DGE-2LR/-2PI/-2PR

R1RW0408DGE-2LR/-2PI/-2PR

R1RP0416DGE-2LR/-2PI/-2PR/-2SR/-2UR/-2VR

R1RW0416DGE-2LR/-2PI/-2PR

Comparison Table

Item		Pre-change	Post-change	
Assembly	Site Name	Renesas Semiconductor (Beijing) Co., Ltd.	Greatek Electronics Inc.	
	Site Location	China	Taiwan	
	Material	Base Metal of Lead Frame	42Alloy	Cu
		Lead Plating	Sn-Cu	Sn
	Marking on package surface	28pin-SOP	Current specification	No change
		52pin- μ TSOP, 36pin-SOJ, 44pin-SOJ	Current specification	New specification
		Refer to the attachment.		
Moisture Sensitivity Level		MSL2	MSL3	
Packing Specification	Magazine (Tube)	Current Specification	New Specification	
		Dimensions of Magazine will be changed. Refer to the attachment.		
	Tape & Reel	Current Specification	New Specification	
		Dimensions of emboss tape will be changed. Refer to the attachment.		

Before and after this change,

- Package form, fit and pin assignment are unchanged.
- Base metal material of lead frame will be changed from 42Alloy to Copper in order to further improve mounting reliability such as soldering strength with printed circuit board(PCB). Accompanied with the copper lead frame, the moisture sensitivity level is changed from MSL2 to MSL3. Along with this site change, the form of inner lead and die thickness will be changed.
- Lead plating will be changed from Sn-Cu to Sn.
- The details appear in the attachment for CST-R2-AJ129.

Post-change products are completely compatible with pre-change from electrical characteristics, reliability and quality level perspectives.

3. Release Support and Milestones

Sample submission	52pin- μ TSOP, 36pin-SOJ, 44pin-SOJ : March 2019 28pin-SOP, 32pin-SOP : August 2019
Reliability report	Same as above

4. Identification

It is identifiable by the orderable part name marked on a shipping label.

5. Schedule

EOL schedule for current products are as follows:

- 52pin- μ TSOP, 36pin-SOJ, 44pin-SOJ :
 - December 2018 : EOL announcement
 - June 2019 : Input Last Time Buy amount
 - December 2019 : Last order due date
 - December 2020 : Last shipment
- 28pin-SOP, 32pin-SOP :
 - June 2019 : EOL announcement
 - December 2019 : Input Last Time Buy amount
 - June 2020 : Last order due date
 - December 2020 : Last shipment

The shipment of successor parts will be started as follows:

52pin- μ TSOP, 36pin-SOJ, 44pin-SOJ : June 2019
28pin-SOP, 32pin-SOP : November 2019

6. Supplemental Information

Please refer to the attachment for CST-R2-AJ129.

7. Product list

Package Type	Density Vcc	Orderable Part Name	
		Pre-change	Post-change
28pin-SOP	256Kb 5V	R1LP5256ESP-5SI#B0	R1LP5256ESP-5SI#B1
		R1LP5256ESP-5SI#S0	R1LP5256ESP-5SI#S1
	256Kb 3V	R1LV5256ESP-5SI#B0	R1LV5256ESP-5SI#B1
		R1LV5256ESP-5SI#S0	R1LV5256ESP-5SI#S1
32pin-SOP	1Mb 5V	R1LP0108ESN-5SI#B0	R1LP0108ESN-5SI#B1
		R1LP0108ESN-5SI#S0	R1LP0108ESN-5SI#S1
	1Mb 3V	R1LV0108ESN-5SI#B0	R1LV0108ESN-5SI#B1
		R1LV0108ESN-5SI#S0	R1LV0108ESN-5SI#S1
	4Mb 5V	R1LP0408DSP-5SI#B0	R1LP0408DSP-5SI#B1
		R1LP0408DSP-5SI#S0	R1LP0408DSP-5SI#S1
	4Mb 3V	RMLV0408EGSP-4S2#CA0	RMLV0408EGSP-4S2#CA1
		RMLV0408EGSP-4S2#HA0	RMLV0408EGSP-4S2#HA1
52pin- μ TSOP	8Mb 3V	RMLV0816BGSD-4S2#AC0	RMLV0816BGSD-4S2#AA1
		RMLV0816BGSD-4S2#HC0	RMLV0816BGSD-4S2#HA1
	16Mb 3V	RMLV1616AGSD-5S2#AC0	RMLV1616AGSD-5S2#AA1
		RMLV1616AGSD-5S2#HC0	RMLV1616AGSD-5S2#HA1
36pin-SOJ	4Mb Fast 5V	R1RP0408DGE-2LR#B0	R1RP0408DGE-2LR#B1
		R1RP0408DGE-2PI#B0	R1RP0408DGE-2PI#B1
		R1RP0408DGE-2PR#B0	R1RP0408DGE-2PR#B1
	4Mb Fast 3V	R1RW0408DGE-2LR#B0	R1RW0408DGE-2LR#B1
		R1RW0408DGE-2PI#B0	R1RW0408DGE-2PI#B1
		R1RW0408DGE-2PR#B0	R1RW0408DGE-2PR#B1
44pin-SOJ	4Mb Fast 5V	R1RP0416DGE-2LR#B0/#BN	R1RP0416DGE-2LR#B1
		R1RP0416DGE-2PI#B0	R1RP0416DGE-2PI#B1
		R1RP0416DGE-2PR#B0/#BN	R1RP0416DGE-2PR#B1
		R1RP0416DGE-2SR#B0	R1RP0416DGE-2SR#B1
		R1RP0416DGE-2UR#B0	R1RP0416DGE-2UR#B1
		R1RP0416DGE-2VR#B0	R1RP0416DGE-2VR#B1
	4Mb Fast 3V	R1RW0416DGE-2LR#B0	R1RW0416DGE-2LR#B1
		R1RW0416DGE-2PI#B0	R1RW0416DGE-2PI#B1
		R1RW0416DGE-2PR#B0	R1RW0416DGE-2PR#B1