

## Product Change Notice

(PCN tracking number: CST-R2-AH064 Rev.1.0)

PC-M62-B002A/E

July 24, 2018

**To:** Valued Renesas Customer

**Renesas Product** Standard SRAM (TSOP) products.

**Summary:**

**Change Description:** Change of lead frame type from etched to stamped for 44pin TSOP(II) products assembled in Amkor Technology Malaysia.

**Reason for Change:** To serve the objective of stable supply for increasing customer demand

**Identification:** None by orderable part name nor by marking on package.

**Anticipated Impact:** None anticipated. There is no change in the external form, fit of package, base metal of lead frame and electrical functionality. This leads to unchanged quality and reliability of the products.

**Schedule:** Scheduled to ship changed products from January 2019

**Supplemental** Refer to pp. 3 - 5 in this notification.

**Information:**

**Contact:** Renesas Electronics Corporation

Broad-based Solution Business Unit, Industrial Analog & Power Business Division,  
Analog Products Department, Standard Memory Products Section

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.

## Customer Response (PCN tracking number: CST-R2-AH064 Rev.1.0)

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 the change of lead frame type from etched to stamped for standard SRAM 44pin TSOP(II) products assembled in Amkor Technology Malaysia, in order to serve the objective of stable supply for increasing customer demand. We greatly appreciate your understanding.

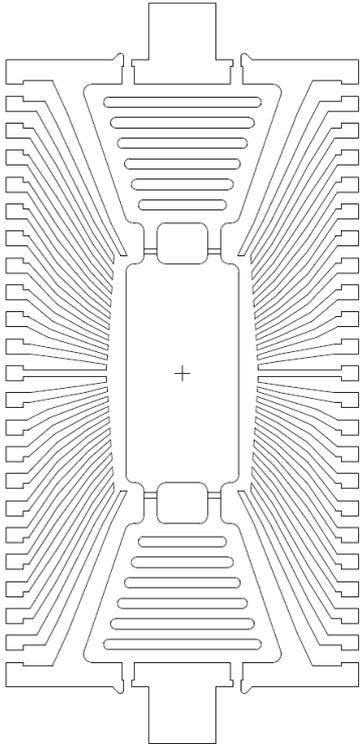
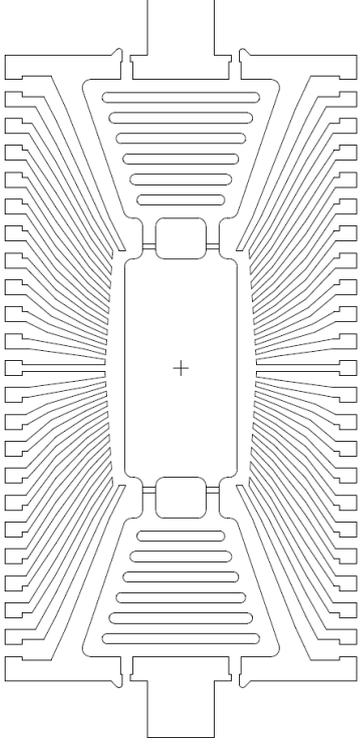
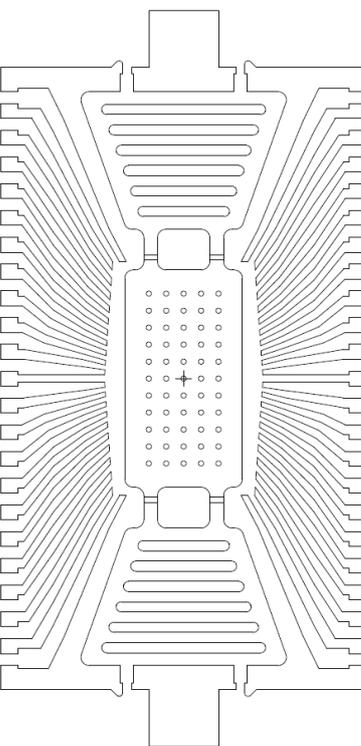
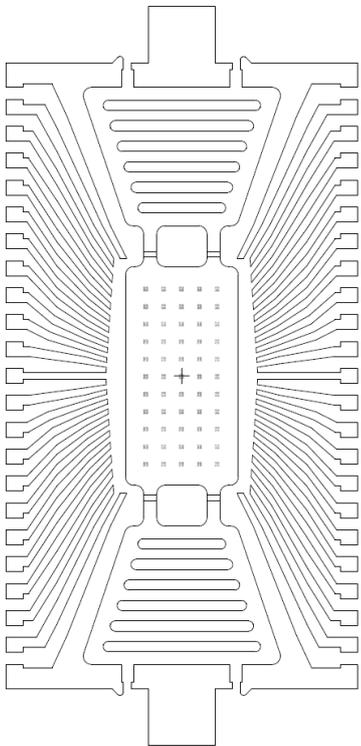
## 2. Details of Change

Lead frame type is changed from etched to stamped for standard SRAM 44pin TSOP(II) products assembled in Amkor Technology Malaysia.

Except lead frame type, there is no change in the external form, fit of package, base metal of lead frame and electrical functionality. This leads to unchanged quality and reliability of the products. For the changed products, evaluation and reliability tests have been successfully done to prove there is no problem.

Inner lead shape is shown in the following figure for both before and after change.

Comparison (Inner lead shape)

	<p><b>Pre-change (etched type)</b></p>	<p><b>Post-change (stamped type)</b></p>
<p><b>Top view</b></p>		
<p><b>Bottom view</b></p>		

### 3. Release Support and Milestones

Sample submission	Will not be prepared.
Reliability report	Will not be prepared.

### 4. Identification

Before and after this change, orderable part name and marking on package will not be changed. As there is no change in the external form, fit of package, base metal of lead frame and electrical functionality, this leads to unchanged quality and reliability of the products.

### 5. Schedule

It is scheduled to ship changed products from January 2019.

### 6. Supplemental Information

None.

### 7. Product list

Package Type	Product Type (Density, Supply Voltage)	Orderable part name
44pin-TSOP(II)	2Mb 3V	R1LV0216BSB-5SI#B1
		R1LV0216BSB-5SI#S1
	4Mb 3V	RMLV0414EGSB-4S2#AA1
		RMLV0414EGSB-4S2#HA1
		RMLV0416EGSB-4S2#AA1
		RMLV0416EGSB-4S2#HA1
	8Mb 3V	RMLV0808BGSB-4S2#AA0
		RMLV0808BGSB-4S2#HA0
		RMLV0816BGSB-4S2#AA0
		RMLV0816BGSB-4S2#HA0