

## Product Change Notice (PCN)

**Subject:** Add assembly fab for MOSFET TO-252 products

**Publication Date:** 12/12/2024

**Effective Date:** 7/1/2025

### Revision Description:

Initial release

### Description of Change:

- Affected package : TO-252

- Affected back-end manufacturing site :

Additional = ATX Semiconductor Co., Ltd. (ATX-WH)

Current = Renesas Semiconductor (Malaysia) Co., Ltd. (RSM)

| Item              | Additional                                 | Current                          |
|-------------------|--------------------------------------------|----------------------------------|
| Assembly site     | ATX-WH                                     | RSM                              |
| Testing site      | ATX-WH                                     | RSM                              |
| Package outline   | There is a difference (Please refer to *1) |                                  |
| Lead frame        | Cu LF                                      | Cu LF                            |
| Die bond material | PbSn solder                                | PbSn solder                      |
| Bonding wire      | Al wire                                    | Al wire                          |
| Mold compound     | Epoxy mold compound<br>(Halogen free)      | Epoxy mold compound<br>(Halogen) |
| Lead plating      | Sn 100%                                    | Sn-Bi                            |
| Packing material  | Embossed tape                              | Embossed tape                    |

### Affected Product List:

|               |  |  |  |
|---------------|--|--|--|
| H7P0601DSTL-E |  |  |  |
| H7N0603DSTR-E |  |  |  |

### Reason for Change:

The purpose is to ensure a stable supply of the affected products.

### Impact on Fit, Form, Function, Quality & Reliability:

Package outline : Please refer to \*1.

No impact on the mounting, function, quality & reliability.

### Product Identification:

It can be identified by product's T/C (Manufacture lot and For Renesas Electronics management).

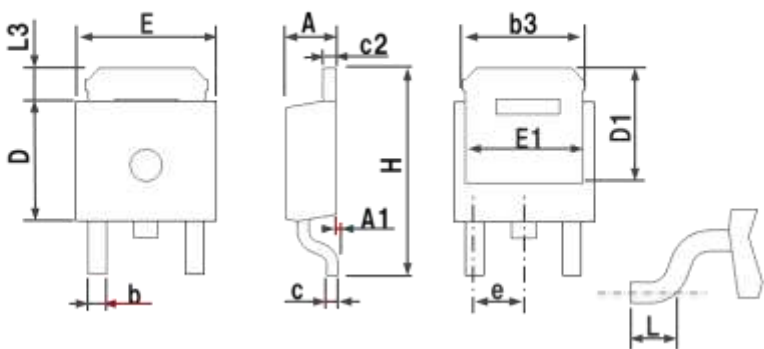
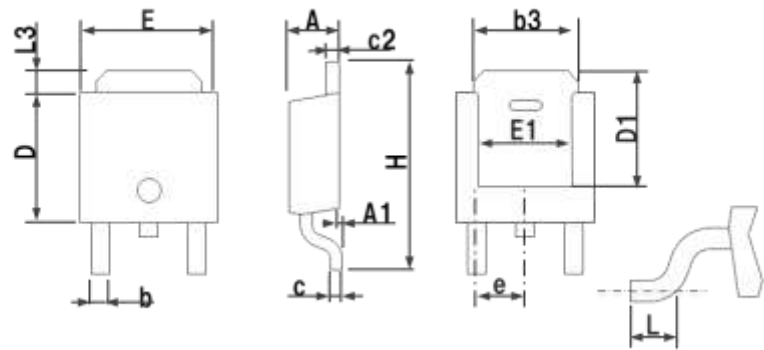
Please contact our sales representative.

**Qualification Status:** Reliability test has been completed. Reliability results can be provided.

**Sample Availability Date:** 1/10/2025  
Sample can be provided. Please contact our sales representative.

**Device Material Declaration:** Materials can be provided. Please contact our sales representative.

\*1 : Package outline and dimension comparison

|            | Package Drawings                                                                   | Dimensions [ Unit : mm ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |
|------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|------------|---|------|------|----|--------|--------|---|------|------|----|------|------|---|------|------|----|------|------|---|------|------|----|--------|-----|---|------|------|----|--------|-----|---|------|------|---|-----|-----|---|--------|---------|----|-----|-----|
| Current    |   | <table><tr><th></th><th>Current</th><th>Additional</th></tr><tr><td>A</td><td>2.30</td><td>2.30</td></tr><tr><td>A1</td><td>0~0.25</td><td>0~0.20</td></tr><tr><td>b</td><td>0.80</td><td>0.75</td></tr><tr><td>b3</td><td>5.60</td><td>5.20</td></tr><tr><td>c</td><td>0.55</td><td>0.55</td></tr><tr><td>c2</td><td>0.55</td><td>0.55</td></tr><tr><td>D</td><td>5.50</td><td>6.10</td></tr><tr><td>D1</td><td>4.5min</td><td>5.2</td></tr><tr><td>E</td><td>6.50</td><td>6.50</td></tr><tr><td>E1</td><td>4.7min</td><td>4.3</td></tr><tr><td>e</td><td>2.29</td><td>2.29</td></tr><tr><td>H</td><td>9.5</td><td>9.9</td></tr><tr><td>L</td><td>0.5min</td><td>0.51min</td></tr><tr><td>L3</td><td>1.5</td><td>1.1</td></tr></table> |  | Current | Additional | A | 2.30 | 2.30 | A1 | 0~0.25 | 0~0.20 | b | 0.80 | 0.75 | b3 | 5.60 | 5.20 | c | 0.55 | 0.55 | c2 | 0.55 | 0.55 | D | 5.50 | 6.10 | D1 | 4.5min | 5.2 | E | 6.50 | 6.50 | E1 | 4.7min | 4.3 | e | 2.29 | 2.29 | H | 9.5 | 9.9 | L | 0.5min | 0.51min | L3 | 1.5 | 1.1 |
|            | Current                                                                            | Additional                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |
| A          | 2.30                                                                               | 2.30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |
| A1         | 0~0.25                                                                             | 0~0.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |
| b          | 0.80                                                                               | 0.75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |
| b3         | 5.60                                                                               | 5.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |
| c          | 0.55                                                                               | 0.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |
| c2         | 0.55                                                                               | 0.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |
| D          | 5.50                                                                               | 6.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |
| D1         | 4.5min                                                                             | 5.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |
| E          | 6.50                                                                               | 6.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |
| E1         | 4.7min                                                                             | 4.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |
| e          | 2.29                                                                               | 2.29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |
| H          | 9.5                                                                                | 9.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |
| L          | 0.5min                                                                             | 0.51min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |
| L3         | 1.5                                                                                | 1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |
| Additional |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |         |            |   |      |      |    |        |        |   |      |      |    |      |      |   |      |      |    |      |      |   |      |      |    |        |     |   |      |      |    |        |     |   |      |      |   |     |     |   |        |         |    |     |     |

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 receipt of this PCN to make any objections to this PCN. If Customer fails to make objections to this PCN within 90 days of the receipt 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.

**For additional information regarding this notice, please contact your Renesas sales representative.**