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**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #20626**Generic Copy

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**Issue Date:** 02-Sep-2014

**TITLE:** Final PCN for wire change from gold to copper, mold compound change and part number change

**PROPOSED FIRST SHIP DATE:** starting on 02-Dec-2014 (the actual ship date will be different by each product, please check the responsible Sales person)

**AFFECTED CHANGE CATEGORY(S):** Assembly area- Wire Bonding and Mold compound and Part number change

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor Sales Office or [Yasuhiro.Igarashi@onsemi.com](mailto:Yasuhiro.Igarashi@onsemi.com)

**SAMPLES:** Contact your local ON Semiconductor Sales Office or [Shigehito.Matsumoto@onsemi.com](mailto:Shigehito.Matsumoto@onsemi.com)

**ADDITIONAL RELIABILITY DATA:** Available

Contact your local ON Semiconductor Sales Office or [Kazutoshi.Kitazume@onsemi.com](mailto:Kazutoshi.Kitazume@onsemi.com)

**NOTIFICATION TYPE:**

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 90 days prior to implementation of the change.

ON Semiconductor will consider this change approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice. To do so, contact [<quality@onsemi.com>](mailto:quality@onsemi.com).

**DESCRIPTION AND PURPOSE:**

This is a Final Process Change Notification to announce for below contents.

- 1) Changing wire material from gold to copper
- 2) Changing part number from XXXXXX-TL-H or XXXXXX-TL-E to XXXXXX-TL-W.  
(See the list of models)
- 3) Changing mold compound from halide to halide free, in case of changing from XXXXXX-TL-E to XXXXXX-TL-W.  
There is no change in case of changing from XXXXXX-TL-H to XXXXXX-TL-W.

The product design and electrical specifications will remain identical. A full electrical characterization over the temperature range will be performed for each product to check the device functionality and electrical specifications. Qualification tests are designed to show that the reliability of transferred devices will continue to meet or exceed ON Semiconductor standards.



## FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #20626

### RELIABILITY DATA SUMMARY:

#### Reliability Test Results:

| Test                                 | Conditions                                  |            | Results |
|--------------------------------------|---------------------------------------------|------------|---------|
| Steady State Operating Life          | Tj=150degC                                  | 1000 hrs   | Pass    |
| High Temperature Reverse Bias        | Ta=150degC, VR=max                          | 1000 hrs   | Pass    |
| Temp Humidity Storage                | Ta=85degC, RH=85%                           | 1000 hrs   | Pass    |
| Temperature Cycle                    | Ta=-55degC to 150degC 30min each            | 100 cycles | Pass    |
| Pressure Cooker                      | Ta=121degC, 2.03 × 10 <sup>5</sup> Pa, 100% | 50 hrs     | Pass    |
| High Temperature Storage             | Ta=150degC                                  | 1000 hrs   | Pass    |
| Resistance to Soldering heat(Reflow) | Solder Temp.: 260degC ± 5degC               | 10s        | Pass    |
| Solderability                        | Solder Temp.: 245degC ± 5degC               | 5 s        | Pass    |

### ELECTRICAL CHARACTERISTIC SUMMARY:

There is no change in the electrical performance. Datasheet specifications remain unchanged.

### CHANGED PART IDENTIFICATION:

| PART_ID       | New PART_ID   |
|---------------|---------------|
| SB10015M-TL-E | SB10015M-TL-W |
| SB1003M3-TL-E | SB1003M3-TL-W |
| SB2003M-TL-E  | SB2003M-TL-W  |
| SB3003CH-TL-E | SB3003CH-TL-W |
| SBE001-TL-E   | SBE001-TL-W   |
| SBE002-TL-E   | SBE002-TL-W   |
| SBE805-TL-E   | SBE805-TL-W   |
| SBE805-S-TL-E |               |
| SBE807-TL-E   | SBE807-TL-W   |
| SBE808-TL-E   | SBE808-TL-W   |
| SBS822-TL-H   | SBS822-TL-W   |
| SS2003M-TL-E  | SS2003M-TL-W  |
| SS3003CH-TL-E | SS3003CH-TL-W |

**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #20626****List of affected General Parts:**

| PART_ID       |
|---------------|
| SB10015M-TL-E |
| SB1003M3-TL-E |
| SB2003M-TL-E  |
| SB3003CH-TL-E |
| SBE001-TL-E   |
| SBE002-TL-E   |
| SBE805-TL-E   |
| SBE805-S-TL-E |
| SBE807-TL-E   |
| SBE808-TL-E   |
| SBS822-TL-H   |
| SBS822-S-TL-H |
| SS2003M-TL-E  |
| SS3003CH-TL-E |