



## Final Product/Process Change Notification

Document #:FPCN24915X

Issue Date:03 Nov 2022

|                                                  |                                                                                                                                                                                                                                                                                                                                                                  |                                      |                 |                 |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------|-----------------|
| <b>Title of Change:</b>                          | Gold Wire Diameter Change                                                                                                                                                                                                                                                                                                                                        |                                      |                 |                 |
| <b>Proposed First Ship date:</b>                 | 08 Feb 2023 or earlier if approved by customer                                                                                                                                                                                                                                                                                                                   |                                      |                 |                 |
| <b>Contact Information:</b>                      | Contact your local onsemi Sales Office or <a href="mailto:Esther.Lau@onsemi.com">Esther.Lau@onsemi.com</a>                                                                                                                                                                                                                                                       |                                      |                 |                 |
| <b>PCN Samples Contact:</b>                      | Contact your local onsemi Sales Office.<br>Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change.<br>Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.                                                |                                      |                 |                 |
| <b>Additional Reliability Data:</b>              | Contact your local onsemi Sales Office or <a href="mailto:ChangKit.Mok@onsemi.com">ChangKit.Mok@onsemi.com</a>                                                                                                                                                                                                                                                   |                                      |                 |                 |
| <b>Type of Notification:</b>                     | This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change.<br>onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> |                                      |                 |                 |
| <b>Marking of Parts/ Traceability of Change:</b> | Datecode                                                                                                                                                                                                                                                                                                                                                         |                                      |                 |                 |
| <b>Change Category:</b>                          | Assembly Change                                                                                                                                                                                                                                                                                                                                                  |                                      |                 |                 |
| <b>Change Sub-Category(s):</b>                   | Material Change                                                                                                                                                                                                                                                                                                                                                  |                                      |                 |                 |
| <b>Sites Affected:</b>                           |                                                                                                                                                                                                                                                                                                                                                                  |                                      |                 |                 |
| <b>onsemi Sites</b>                              |                                                                                                                                                                                                                                                                                                                                                                  | <b>External Foundry/Subcon Sites</b> |                 |                 |
| None                                             |                                                                                                                                                                                                                                                                                                                                                                  | External Subcon                      |                 |                 |
| <b>Description and Purpose:</b>                  |                                                                                                                                                                                                                                                                                                                                                                  |                                      |                 |                 |
| Au wire diameter change.                         |                                                                                                                                                                                                                                                                                                                                                                  |                                      |                 |                 |
| <b>Change Table:</b>                             |                                                                                                                                                                                                                                                                                                                                                                  |                                      |                 |                 |
|                                                  | <b>From</b>                                                                                                                                                                                                                                                                                                                                                      |                                      | <b>To</b>       |                 |
|                                                  | IR die                                                                                                                                                                                                                                                                                                                                                           | PTR die                              | IR die          | PTR die         |
|                                                  | Wire size (mil)                                                                                                                                                                                                                                                                                                                                                  | Wire size (mil)                      | Wire size (mil) | Wire size (mil) |
| Grouping 1                                       | 1.2                                                                                                                                                                                                                                                                                                                                                              | 1.0                                  | 1.0             | 0.9             |
| Grouping 2                                       | 1.2                                                                                                                                                                                                                                                                                                                                                              | 1.0                                  | 1.2             | 0.9             |
| Grouping 3                                       | 1.2                                                                                                                                                                                                                                                                                                                                                              | 1.2                                  | 1.2             | 1.0             |



## Final Product/Process Change Notification

Document #:FPCN24915X

Issue Date:03 Nov 2022

### Group 1 Affected Part Numbers:

|            |             |             |               |               |
|------------|-------------|-------------|---------------|---------------|
| FOD617B    | FOD817A300  | FOD817B3SD  | FOD817D       | FOD817X-5701W |
| FOD617B3SD | FOD817A300W | FOD817BS    | FOD817D300    | H11A817B300W  |
| FOD617C    | FOD817A3S   | FOD817BSD   | FOD817D300W   | H11A817B3SD   |
| FOD617C3SD | FOD817A3SD  | FOD817C     | FOD817D3S     |               |
| FOD817     | FOD817AS    | FOD817C300  | FOD817D3SD    |               |
| FOD817300  | FOD817ASD   | FOD817C300W | FOD817DS      |               |
| FOD817300W | FOD817B     | FOD817C3S   | FOD817DSD     |               |
| FOD8173S   | FOD817B300  | FOD817C3SD  | FOD817S       |               |
| FOD8173SD  | FOD817B300W | FOD817CS    | FOD817SD      |               |
| FOD817A    | FOD817B3S   | FOD817CSD   | FOD817X-5700W |               |

### Group 2 Affected Part Numbers:

|            |             |          |
|------------|-------------|----------|
| FOD814     | FOD814A300  | FOD814SD |
| FOD814300  | FOD814A300W |          |
| FOD814300W | FOD814A3SD  |          |
| FOD8143S   | FOD814AS    |          |
| FOD8143SD  | FOD814ASD   |          |
| FOD814A    | FOD814S     |          |

### Group 3 Affected Part Numbers:

|            |
|------------|
| FOD852     |
| FOD852300  |
| FOD852300W |
| FOD8523S   |
| FOD8523SD  |
| FOD852S    |
| FOD852SD   |

This change will have no impact on quality, reliability, electrical and the product will remain fully compliant. There will be no datasheet changes. Product incorporating the changes can be shipped interchangeably with existing unchanged products.

## Reliability Data Summary:

**QV DEVICE NAME: FOD817S**

**RMS: 2205012698 / 2203011253**

**PACKAGE: PDIP4**

| Test | Specification                      | Condition                                                                          | Interval      | Results |
|------|------------------------------------|------------------------------------------------------------------------------------|---------------|---------|
| HTOL | JESD22-A108                        | Ta=110°C, IF=IC=10mA                                                               | 1008 hours    | 0/231   |
| HTSL | JESD22-A103                        | Ta= 150°C                                                                          | 1008 hours    | 0/231   |
| PC   | J-STD-020<br>JESD22-A113           | MSL 1 @ 260°C,<br>Pre TC, THB, IOL and AC<br>for surface mount package/option only | -             | 0/924   |
| TC   | JESD22-A104                        | Ta= -55°C to +125°C                                                                | 1000 cycles   | 0/231   |
| THB  | JESD22-A101                        | 85°C/85%RH, IF=IC=5mA                                                              | 1008 hours    | 0/231   |
| IOL  | MIL-STD-750<br>(M1037)<br>AEC-Q101 | Ta=+25°C, delta Tj=60°C<br>On/off = 2 min<br>for IRLLED die only                   | 15,000 cycles | 0/231   |
| AC   | JESD22-A102                        | 121°C, 100%RH, 15psig                                                              | 96 hours      | 0/231   |
| RSH  | JESD22- B106                       | Ta = 265°C, 10 sec<br>Required for through hole devices only                       | -             | 0/30    |

## Electrical Characteristics Summary:

Electrical characteristics are not impacted.

## List of Affected Parts:

**Note:** Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

| Part Number | Qualification Vehicle |
|-------------|-----------------------|
| FOD617B     | FOD817                |
| FOD617B3SD  | FOD817                |
| FOD617C     | FOD817                |
| FOD814      | FOD817                |
| FOD814300   | FOD817                |
| FOD814300W  | FOD817                |
| FOD8143S    | FOD817                |
| FOD8143SD   | FOD817                |
| FOD814A     | FOD817                |
| FOD814A300  | FOD817                |
| FOD814A300W | FOD817                |



## Final Product/Process Change Notification

Document #:FPCN24915X

Issue Date:03 Nov 2022

|             |        |
|-------------|--------|
| FOD814A3SD  | FOD817 |
| FOD814AS    | FOD817 |
| FOD814ASD   | FOD817 |
| FOD814S     | FOD817 |
| FOD814SD    | FOD817 |
| FOD817      | QV     |
| FOD817300   | FOD817 |
| FOD817300W  | FOD817 |
| FOD8173S    | FOD817 |
| FOD8173SD   | FOD817 |
| FOD817A     | FOD817 |
| FOD817A300  | FOD817 |
| FOD817A300W | FOD817 |
| FOD817A3S   | FOD817 |
| FOD817A3SD  | FOD817 |
| FOD817AS    | FOD817 |
| FOD817ASD   | FOD817 |
| FOD817B     | FOD817 |
| FOD817B300  | FOD817 |
| FOD817B300W | FOD817 |
| FOD817B3S   | FOD817 |
| FOD817B3SD  | FOD817 |
| FOD817BS    | FOD817 |
| FOD817BSD   | FOD817 |
| FOD817C     | FOD817 |
| FOD817C300  | FOD817 |
| FOD817C300W | FOD817 |
| FOD817C3S   | FOD817 |
| FOD817C3SD  | FOD817 |
| FOD817CS    | FOD817 |
| FOD817CSD   | FOD817 |
| FOD817D     | FOD817 |
| FOD817D300  | FOD817 |
| FOD817D300W | FOD817 |



## Final Product/Process Change Notification

Document #:FPCN24915X

Issue Date:03 Nov 2022

|               |        |
|---------------|--------|
| FOD817D3S     | FOD817 |
| FOD817D3SD    | FOD817 |
| FOD817DS      | FOD817 |
| FOD817DSD     | FOD817 |
| FOD817S       | FOD817 |
| FOD817SD      | FOD817 |
| FOD817X-5700W | FOD817 |
| FOD817X-5701W | FOD817 |
| FOD852        | FOD817 |
| FOD852300     | FOD817 |
| FOD852300W    | FOD817 |
| FOD8523S      | FOD817 |
| FOD8523SD     | FOD817 |
| FOD852S       | FOD817 |
| FOD852SD      | FOD817 |
| FOD617C3SD    | FOD817 |