



## Final Product/Process Change Notification

Document #:FPCN26958X

Issue Date:11 Aug 2026

|                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                  |                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>Title of Change:</b>                                                                                                                                                                                                                            | Assembly and Test Transfer from AUK Corporation, Korea to onsemi Seremban, Malaysia for SOT-223 product                                                                                                                                                                                                                                                          |                                 |
| <b>Proposed First Ship date:</b>                                                                                                                                                                                                                   | 18 Nov 2026 or earlier if approved by customer                                                                                                                                                                                                                                                                                                                   |                                 |
| <b>Contact Information:</b>                                                                                                                                                                                                                        | Contact your local onsemi Sales Office                                                                                                                                                                                                                                                                                                                           |                                 |
| <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                                                                                                                                                                                                                                                                                                                           |                                 |
| <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>                                                                                                                                                                                                   | Lot traceability will be identified by Assembly code                                                                                                                                                                                                                                                                                                             |                                 |
| <b>Change Category:</b>                                                                                                                                                                                                                            | Assembly Change, Test Change                                                                                                                                                                                                                                                                                                                                     |                                 |
| <b>Change Sub-Category(s):</b>                                                                                                                                                                                                                     | Manufacturing Site Transfer                                                                                                                                                                                                                                                                                                                                      |                                 |
| <b>Sites Affected:</b>                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                  |                                 |
| <b>onsemi Sites</b>                                                                                                                                                                                                                                | <b>External Foundry/Subcon Sites</b>                                                                                                                                                                                                                                                                                                                             |                                 |
| onsemi Seremban, Malaysia                                                                                                                                                                                                                          | AUK Corporation, Korea                                                                                                                                                                                                                                                                                                                                           |                                 |
| <b>Description and Purpose:</b><br>onsemi wishes to inform customers of the transfer of the Assembly and Test site for FQT1N80TF-WS from AUK Corporation, Korea to onsemi Seremban, Malaysia.<br><br>The BOM changes in detail as per table below. |                                                                                                                                                                                                                                                                                                                                                                  |                                 |
|                                                                                                                                                                                                                                                    | <b>Before Change Description</b>                                                                                                                                                                                                                                                                                                                                 | <b>After Change Description</b> |
| <b>Assembly &amp; Test Site</b>                                                                                                                                                                                                                    | AUK Corporation, Korea                                                                                                                                                                                                                                                                                                                                           | onsemi Seremban, Malaysia       |
| <b>LeadFrame</b>                                                                                                                                                                                                                                   | SOT223 4L PMC90                                                                                                                                                                                                                                                                                                                                                  | 4L X Cu Alloy 194HH             |
| <b>Die Attach</b>                                                                                                                                                                                                                                  | Pb93.5Sn5Ag1.5                                                                                                                                                                                                                                                                                                                                                   | PbSn2Ag2.5 (Soft Solder)        |
| <b>Mold compound</b>                                                                                                                                                                                                                               | NEPES LMC400SRM                                                                                                                                                                                                                                                                                                                                                  | SUMITOMO G700HF                 |
| <b>Wire</b>                                                                                                                                                                                                                                        | Au 1.5 mil                                                                                                                                                                                                                                                                                                                                                       | PCC 1.5 mil                     |
| <b>Case outline</b>                                                                                                                                                                                                                                | 318H-01                                                                                                                                                                                                                                                                                                                                                          | 318E-04                         |
| There is no product marking change as a result of this change                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                  |                                 |



## Final Product/Process Change Notification

Document #:FPCN26958X

Issue Date:11 Aug 2026

### Reliability Data Summary:

QV DEVICE NAME: FQT1N80TF-WS

RMS: U106372, S107006, S107661

PACKAGE: SOT-223-4

| Test                                    | Specification                | Condition                                                            | Interval  | Results |
|-----------------------------------------|------------------------------|----------------------------------------------------------------------|-----------|---------|
| High Temperature Reverse Bias           | JESD22-A108                  | Ta= 150°C, 100% max rated V                                          | 1008 hrs  | 0/231   |
| High Temperature Gate Bias              | JESD22-A108                  | Ta=150°C, 100% max rated Vgss                                        | 1008 hrs  | 0/231   |
| High Temperature Storage Life           | JESD22-A103                  | Ta= 150°C                                                            | 1008 hrs  | 0/231   |
| Preconditioning                         | J-STD-020 JESD-A113          | MSL 1 @ 260 °C, Pre IOL, TC, uHAST, HAST for surface mount pkgs only |           | 0/924   |
| Intermittent Operating Life             | MIL-STD-750 (M1037) AEC-Q101 | Ta=+25°C, delta Tj=100°C<br>On/off = __ min                          | 15000 cyc | 0/231   |
| Temperature Cycling                     | JESD22-A104                  | Ta= -55°C to +150°C                                                  | 1000 cyc  | 0/231   |
| Highly Accelerated Stress Test          | JESD22-A110                  | 130°C, 85% RH, 18.8psig, bias                                        | 96 hrs    | 0/231   |
| Unbiased Highly Accelerated Stress Test | JESD22-A118                  | 130°C, 85% RH, 18.8psig, unbiased                                    | 96 hrs    | 0/231   |
| Resistance to Solder Heat               | JESD22- B106                 | Ta = 265°C, 10 sec<br>Required for through hole devices only         |           | 0/10    |
| Solderability                           | JSTD002                      | Ta = 245°C, 5 sec                                                    |           | 0/ 15   |
| Physical Dimensions                     | JESD22-B120                  |                                                                      |           |         |

### 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](#).

| Current Part Number | New Part Number | Qualification Vehicle |
|---------------------|-----------------|-----------------------|
| FQT1N80TF-WS        | #NONE           | FQT1N80TF-WS          |