

## Final Product/Process Change Notification Document #: FPCN22571X

Issue Date: 15 January 2019

| Title of Change:  | SMC603SP2 dual source addition of Vanguard Taiwan FAB.  |                           |                |  |             |         |
|---|---|---------------------------|----------------|--|-------------|---------|
| Proposed first ship date:   | 1 May 2019 or earlier upon customer approval.   |                           |                |  |             |         |
| Contact information:  | Contact your local ON Semiconductor Sales Office or < Thomas.chen@onsemi.com >  |                           |                |  |             |         |
| Samples:  | Contact your local ON Semiconductor Sales Office or < PCN.samples@onsemi.com > 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.  |                           |                |  |             |         |
| Additional Reliability Data:  | Contact your local ON Semiconductor Sales Office or < Marco.kang@onsemi.com>  |                           |                |  |             |         |
| Type of notification:   | This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change.  ON Semiconductor will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact < PCN.Support@onsemi.com> |                           |                |  |             |         |
| Change Part Identification:   | Affected products will be identified with date code.  |                           |                |  |             |         |
| Change Category:  | ✓ Wafer Fab Change  |                           |                |  |             |         |
| Change Sub-Category(s):  ✓ Manufacturing Site Addition  ✓ Manufacturing Site Transfer  ✓ Manufacturing Process Change  ✓ Manufacturing Process Change |   |                           | _              |  |             |         |
| Sites Affected:   | ON Semiconductor Sites:<br>ON S. Portland, Maine  |                           |                | External Foundry/Subcon Sites:<br>Vanguard |             |         |
| Description and Purpose:  |   |                           |                |  |             |         |
| SMC603SP2 dual source addition of Vanguard Taiwan FAB.  |   |                           |                |  |             |         |
| Material to I   | oe changed  | Before Change Description | After Change I |  | Description |         |
| Wafer fab   | fab location South Portland Maine South P   |                           | South Po       | ortland Maine / Vanguard Taiwan            |             |         |
| There is no product marking change as a result of this change   |   |                           |                |  |             |         |
| Reliability Data Summary:   |   |                           |                |  |             |         |
| QV Device Name: SMC603SP2   |   |                           |                |  |             |         |
| Test Speci  | ification   | Conditio                  | n              |  | Interval    | Results |

| Test  | Specification Condition |                                   | Interval | Results |
|-------|-------------------------|-----------------------------------|----------|---------|
| HTOL  | JESD22-A108             | Ta=125°C, 100 % max rated Vcc     | 1008 hrs | 0/80    |
| HTSL  | JESD22-A103             | Ta= 150°C                         | 1008 hrs | 0/80    |
| TC    | JESD22-A104             | Ta= -55°C to +150°C               | 500 cyc  | 0/80    |
| HAST  | JESD22-A110             | 130°C, 85% RH, 18.8psig, bias     | 96 hrs   | 0/80    |
| uHAST | JESD22-A118             | 130°C, 85% RH, 18.8psig, unbiased | 96 hrs   | 0/80    |

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| Electrical Characteristic Summary:           |                       |  |  |  |  |  |  |
|--|-----------------------|--|--|--|--|--|--|
| Electrical characteristics are not impacted. |                       |  |  |  |  |  |  |
| List of Affected Part:                       |                       |  |  |  |  |  |  |
| Part Number                                  | Qualification Vehicle |  |  |  |  |  |  |
| SMC603SP2                                    | SMC603SP2             |  |  |  |  |  |  |

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