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| <b>Title of Change:</b>                          | PQFN_88 Leadframe Change – Removal of selective Ag-plating on Die Attach Pad (DAP)   |
| <b>Proposed First Ship date:</b>                 | 22 Feb 2023 or earlier if approved by customer   |
| <b>Contact Information:</b>                      | Contact your local onsemi Sales Office or <a href="mailto:Joseph.Mendoza@onsemi.com">Joseph.Mendoza@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:Aileen.Allado@onsemi.com">Aileen.Allado@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> | Affected products will be identified with date code.   |
| <b>Change Category:</b>                          | Assembly Change  |
| <b>Change Sub-Category(s):</b>                   | Manufacturing Process Change   |

**Sites Affected:**

**onsemi Sites**

onsemi Cebu, Philippines

**External Foundry/Subcon Sites**

None

**Description and Purpose:**

Removal of selective Ag-plating on Die Attach pad (DAP). This is to consolidate two leadframe parts, i.e., Bare Cu DAP, and with selective Ag plated DAP, into one LF Part – Bare Cu DAP.

|           | Before Change Description  | After Change Description  |
|-----------|--|---|
| LeadFrame | <ul style="list-style-type: none"> <li>• With selective Ag plating on DAP</li> </ul> | <ul style="list-style-type: none"> <li>• Bare Cu DAP</li> </ul> |

There is no product marking change as a result of this change.



# Final Product/Process Change Notification

Document #:FPCN24635X

Issue Date:17 Nov 2022

## Reliability Data Summary:

QV DEVICE NAME: FCMT199N60

RMS: F80338

PACKAGE: PQFN\_88

| Test  | Specification       | Condition   | Interval  | Results |
|-------|---------------------|---|-----------|---------|
| HTSL  | JESD22-A103         | Ta= 150 °C  | 1,008 hrs | 0/240   |
| TC    | JESD22-A104         | Ta= -55°C to +150°C   | 1,000 cyc | 0/240   |
| uHAST | JESD22-A118         | 130°C, 85% RH, 18.8psig, unbiased                                   | 96 hrs    | 0/240   |
| PC    | J-STD-020 JESD-A113 | MSL 1 @260 °C, Pre IOL, TC, uHAST, HAST for surface mount pkgs only |           | 0/480   |
| SD    | JSTD002             | Ta = 245C, 5 sec  |           | 0/66    |

## 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 |
|-------------|-----------------------|
| FCMT299N60  | FCMT199N60            |
| FCMT199N60  | FCMT199N60            |

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**Appendix A: Changed Products**

**PCN#: FPCN24635X**  
**Issue Date: Nov 17, 2022**

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DIKG: DIGI-KEY

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| Product    | Customer Part Number | Qualification Vehicle | New Part Number | Replacement Supplier |
|------------|----------------------|-----------------------|-----------------|----------------------|
| FCMT299N60 |                      | FCMT199N60            | NA              |                      |
| FCMT199N60 |                      | FCMT199N60            | NA              |                      |