



Final Product/Process Change Notification

Document #:FPCN24381Z1

Issue Date:20 Feb 2022

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| Title of Change: | Updated to FPCN24381Z - Aligning the PCN timeline policy with the previous announced Automotive SOIC8 MOSFET Wire & Leadframe Change in Hana. |
| Proposed Changed Material First Ship Date: | 20 Aug 2022 or earlier if approved by customer |
| Current Material Last Order Date: | 20 Apr 2022 <i>Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.</i> |
| Current Material Last Delivery Date: | 19 Aug 2022 <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i> |
| Product Category: | Active components – Discrete components |
| Contact information: | Contact your local onsemi Sales Office or Peter.Lee@onsemi.com |
| PCN Samples Contact: | Contact your local onsemi Sales Office to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements. |
| Sample Availability Date: | 31 Jan 2022 |
| PPAP Availability Date: | 31 Jan 2022 |
| Additional Reliability Data: | Contact your local onsemi Sales Office or Shiela.Crosby@onsemi.com |
| Type of Notification: | This is a Final Product/Process Change Notification (FPCN) sent to customers. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com . |
| Change Category | |
| Category | Type of Change |
| Equipment | Production from a new equipment/tool which uses the same basic technology (replacement equipment or extension of existing equipment pool) without change of process. |
| Process - Assembly | Change of direct material supplier, Change of wire bonding |
| Description and Purpose: This is an update to FPCN24381Z, informing customers of the correction on "Proposed First Ship Date" (aka PCN "Expiry Date"). The new Proposed first ship date is aligned to the onsemi policy which is at least 6months from PCN distribution to customer. However, shipment of changed Material to customer will only happen once FPCN is fully approved. | |
| Reason / Motivation for Change: | Process/Materials Change |
| Anticipated impact on fit, form, function, reliability, product safety or manufacturability: | The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded. No anticipated impacts. |



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| Sites Affected: | |
| onsemi Sites | External Foundry/Subcon Sites |
| None | HANA Semiconductor, Thailand |
| Marking of Parts/ Traceability of Change: | no change on marking and traceability. |

Reliability Data Summary:

QV DEVICE NAME: HUFA76407DK8T-F085

RMS: U76430, O76721

PACKAGE: SOIC-8

| Test | Specification | Condition | Interval | Results |
|-------|------------------------------------|--|---------------------|---------|
| HTSL | JESD22-A103 | Ta = 150°C | 1008hrs, 2016 hrs | 0/231 |
| IOL | MIL-STD-750 (M1037) AEC-Q101 | Ta=+25°C, delta Tj=100°C On/off = 2 min | 15000cyc, 30000 cyc | 0/231 |
| TC | JESD22-A104 | Ta= -55°C to +150°C | 1000cy, 2000 cyc | 0/231 |
| HAST | JESD22-A110 | 130°C, 85% RH, 18.8psig, bias | 96hrs, 192 hrs | 0/231 |
| uHAST | JESD22-A118 | 130°C, 85% RH, 18.8psig, unbiased | 96 hrs | 0/231 |
| PC | J-STD-020, JESD-A113 | MSL 1 @ 260 °C | | 0/924 |
| RSH | JESD22- B106 | Ta = 265C, 10 sec | | 0/30 |
| SD | JSTD002 | Ta = 245C, 5 sec | | 0/45 |
| PD | JESD22 B100 | | | 0/30 |
| WBS | MIL-STD-750 Method 2037 | | | 0/30 |
| BS | AEC Q101-003 | | | 0/30 |

NOTE: AEC-1pager is attached.

To view attachments:

1. Download pdf copy of the PCN to your computer
2. Open the downloaded pdf copy of the PCN
3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field
4. Then click on the attached file

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 |
|---------------------|-----------------|-----------------------|
| HUFA76407DK8T-F085 | NA | HUFA76407DK8T-F085 |