



# Final Product/Process Change Notification

Document #:FPCN24968X

Issue Date:14 Dec 2022

<b>Title of Change:</b>	UltraFET Planar Topmetal Improvement
<b>Proposed First Ship date:</b>	21 Mar 2023 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:John.Klimek@onsemi.com">John.Klimek@onsemi.com</a>
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office. 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. 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:songyong.sim@onsemi.com">songyong.sim@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. 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>	Changed material can be identified by lot code
<b>Change Category:</b>	Wafer Fab Change
<b>Change Sub-Category(s):</b>	Material Change

**Sites Affected:**

**onsemi Sites**

onsemi Mountain Top, United States

**External Foundry/Subcon Sites**

None

**Description and Purpose:**

	Before Change Description	After Change Description
Die Topmetal Composition	AlSi+Ti flash	AlSiCu

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

**Reliability Data Summary:**

**QV DEVICE NAME:** HUF75652G3

**RMS:** U83662, U84877

**PACKAGE:** TO247

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= 150°C, 80% max rated V	1008 hrs	0/240
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 5 min	6000 cyc	0/240
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/240
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/240



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### 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
HUF75842P3	HUF75652G3
HUF75852G3	HUF75652G3
RFD16N05LSM9A	HUF75652G3
HUF75645S3ST	HUF75652G3
HUF75652G3	HUF75652G3
HUF75542P3	HUF75652G3
HUF75545P3	HUF75652G3
HUF75545S3ST	HUF75652G3
HUF75631S3ST	HUF75652G3
HUF75639G3	HUF75652G3
HUF75639P3	HUF75652G3
HUF75639P3-F102	HUF75652G3
HUF75639S3	HUF75652G3
HUF75639S3ST	HUF75652G3
RFP12N10L	HUF75652G3
RFD3055LESM9A	HUF75652G3
HUF75645P3	HUF75652G3
PCFA75545W	HUF75652G3
HUFA76429D3	HUF75652G3
HUFA75645S3S	HUF75652G3
HUF76639S3ST	HUF75652G3
HUF76629D3ST	HUF75652G3
HUF76609D3ST	HUF75652G3
HUF76439S3ST	HUF75652G3
HUF76429S3ST	HUF75652G3
HUF76423P3	HUF75652G3
HUF76407D3ST	HUF75652G3

**Appendix A: Changed Products**

**PCN#: FPCN24968X**  
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DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
HUF75852G3		HUF75652G3		
HUF75645S3ST		HUF75652G3		
HUF75652G3		HUF75652G3		
HUF75542P3		HUF75652G3		
HUF75545P3		HUF75652G3		
HUF75545S3ST		HUF75652G3		
HUF75631S3ST		HUF75652G3		
HUF75639G3		HUF75652G3		
HUF75639P3		HUF75652G3		
HUF75639S3ST		HUF75652G3		
RFP12N10L		HUF75652G3		
RFD3055LESM9A		HUF75652G3		
HUF75645P3		HUF75652G3		
HUFA76429D3		HUF75652G3		
HUF76639S3ST		HUF75652G3		
HUF76629D3ST		HUF75652G3		
HUF76609D3ST		HUF75652G3		
HUF76439S3ST		HUF75652G3		
HUF76429S3ST		HUF75652G3		
HUF76423P3		HUF75652G3		
RFD16N05LSM9A		HUF75652G3		
HUF76407D3ST		HUF75652G3		