



## Final Product/Process Change Notification

Document #:FPCN22698XA

Issue Date:31 Oct 2019

<b>Title of Change:</b>	Qualification of Amkor Technology Malaysia (ATM) for the Assembly and Test of MOSFET products packaged in u8FL.
<b>Proposed First Ship date:</b>	07 Feb 2020 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local ON Semiconductor Sales Office or MohdHezri.AbuBakar@onsemi.com
<b>PCN Samples Contact:</b>	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. 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 ON Semiconductor Sales Office or MohdAzizi.Azman@onsemi.com
<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. 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
<b>Marking of Parts/ Traceability of Change:</b>	Product from Amkor Malaysia will be marked with site code YE prior to date code.
<b>Change Category:</b>	Assembly Change, Test Change
<b>Change Sub-Category(s):</b>	Manufacturing Site Addition, Material Change, Shipping/Packaging/Marking
<b>Sites Affected:</b>	
<b>ON Semiconductor Sites</b>	<b>External Foundry/Subcon Sites</b>
None	AMKOR, Malaysia

**Description and Purpose:**

This Product Change Notice is to announce that ON Semiconductor is expanding assembly and test operations of u8FL discrete packaged products, currently built at ON Seremban, Malaysia facility to Amkor Technology Malaysia (ATM).

No change on existing OPN. There will be two separate BOMs for ON Seremban, Malaysia and ATM.

	Before Change Description	After Change Description	
Assembly Site	ON Seremban, Malaysia	ON Seremban, Malaysia	Amkor Technology Malaysia (ATM)
LeadFrame	TAMAC 4 FULL HARD Cu	TAMAC 4 FULL HARD Cu	C194 Cu leadframe with Ag spot

	From	To
Product marking change	ON Seremban Site code - R	ATM Site code - YE

**Reliability Data Summary:**

QV DEVICE NAME: NTTFS6H850NTAG

RMS: S47122

PACKAGE: u8FL

Test	Specification	Condition	Interim Interval	Results
HTRB	JESD22-A108	Ta=150°C, 100% max rated V	1008 hrs	0/231
HTGB	JESD22-A108	Ta=150°C, 100% max rated Vgss	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	2016 hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/231
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	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		0/90

**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
NTTFS6H850NTAG	NTTFS6H850NTAG
NTTFS6H880NTAG	NTTFS6H850NTAG
NTTFS6H860NTAG	NTTFS6H850NTAG
NTTFS6H888NTAG	NTTFS6H850NTAG
NTTFS6H854NTAG	NTTFS6H850NTAG