ON Semiconductor

Final Product/Process Change Notification

Document # : FPCN21394Z
Issue Date: 29 September 2016

Title of Change:	Transfer of ON Semiconductor MOSFET product wafer fabrication from Gifu, Japan to United Microelectronics Corporation Taiwan (UMCT).
Proposed first ship date:	29 September 2017 *or earlier upon customer approval*
Contact information:	Contact your local ON Semiconductor Sales Office or <Katsuyoshi.Mino@onsemi.com>
Samples:	Contact your local ON Semiconductor Sales Office or <Tomohiro.Uda@onsemi.com>
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <Kazutoshi.Kitazume@onsemi.com>.
Type of notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 12months prior to implementation of the change or earlier upon customer approval. ON Semiconductor will consider this proposed change and its conditions acceptable, 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 lot code.
Change category:	☒ Wafer Fab Change ☐ Assembly Change ☐ Test Change ☐ Other _____

Change Sub-Category(s):

☒ Manufacturing Site Change/Addition
☐ Manufacturing Process Change
☐ Material Change
☐ Product specific change
☐ Datasheet/Product Doc change
☐ Shipping/Packaging/Marking
☐ Other: _____

Sites Affected:

☐ All site(s) ☐ not applicable
☒ ON Semiconductor site(s) :
ON Gifu, Japan
☒ External Foundry/Subcon site(s)
United Microelectronics Corporation
Taiwan

Description and Purpose:

This Final Process Change Notification announces the transfer of wafer fabrication of the listed ON Semiconductor MOSFET products in IPM from ON Semiconductor wafer fabrication facility located in Gifu, Japan to the United Microelectronics Corporation Taiwan (UMCT) wafer fabrication facility located in Taiwan.

The MOSFET design and electrical specifications remain identical.

Reliability Data Summary:

QV DEVICE NAME : STK984-091A-E
PACKAGE : SIP2E-2nd

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta= 125°C, 80% max rated V	1008 hrs	Lot A : 0/11 Lot B : 0/11 Lot C : 0/11
HTSL	JESD22-A103	Ta= 150℃	1008 hrs	Lot A: 0/11 Lot B : 0/11 Lot C : 0/11
LTSL	JESD22-A119	Ta= -40℃	1008 hrs	Lot A: 0/11 Lot B : 0/11 Lot C : 0/11
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=25°C, delta Tj=100°C On/off = 2sec/10sec	10000 cyc	Lot A: 0/11 Lot B : 0/11 Lot C : 0/11
TC	JESD22-A104	Ta= -40°C to +125°C	1000 cyc	Lot A: 0/11 Lot B : 0/11 Lot C : 0/11
H3TRB	JESD22-A101	85°C, 85% RH, 80% max rated V	1008 hrs	Lot A: 0/11 Lot B : 0/11 Lot C : 0/11
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	Lot A: 0/11 Lot B : 0/11 Lot C : 0/11

NOTE: AEC-1 pager is attached.

To access file attachments on pdf copy of PCN, please be guided by the steps below:

1. *Download pdf copy of the PCN to your computer*
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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*
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Electrical Characteristic Summary:
There is no change in the electrical performance. Datasheet specifications remain unchanged.

List of Affected Standard Parts:

Part Number	Qualification Vehicle
STK984-090A-E	STK984-091A-E