



Final Product/Process Change Notification

Document #:FPCN22966XS

Issue Date:04 Mar 2022

Title of Change:	Wafer Fab Capacity Expansion for Trench 6 MOSFET Technology at Global Foundries in New York, US.
Proposed First Ship date:	11 Jun 2022 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Rodrigo.Milana.Jr@onsemi.com
PCN Samples Contact:	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.
Additional Reliability Data:	Contact your local onsemi Sales Office or Robert.Baran@onsemi.com
Type of Notification:	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 PCN.Support@onsemi.com
Marking of Parts/ Traceability of Change:	Material will be traceable with ONs lot trace code & tracking
Change Category:	Wafer Fab Change
Change Sub-Category(s):	Manufacturing Site Addition

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
None	Global Foundries East Fishkill, New York, United States

Description and Purpose:

This Product Change Notification, which is intended to add capacity for onsemi 40V Trench 6 MOSFET technology products, is announcing the addition of the Global Foundries Fab located in New York, US, for the manufacturing of these products.

The changes include Global Foundries as an additional site for wafer fabrication, back grind and back metal, utilizing 300mm diameter wafers, as compared to our existing sites using 200mm wafers.

There is no change to the orderable part number.

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

	Before Change Description	After Change Description
Wafer Fabrication Site	onsemi Aizu, Japan	onsemi Aizu, Japan Global Foundries East Fishkill, New York, United States
Wafer Diameter	200mm (existing sites)	300mm (Global Foundries)
Wafer Probe Site	onsemi Bucheon, Korea	onsemi Bucheon, Korea Global Foundries East Fishkill, New York, United States
Back Grind, Back Metal Site	onsemi Bucheon, Korea	onsemi Bucheon, Korea Global Foundries East Fishkill, New York, United States



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Reliability Data Summary:

QV DEVICE NAME: NTMFSC0D9N04CL

RMS: 78411 , 81280

PACKAGE: PQFN 8x8 DC

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta=175°C, 100% max rated Vds	1008 hrs	0/231
HTGB	JESD22-A108	Ta=175°C, 100% max rated Vgss	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 175°C	1008 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	MSL1 @ 260°C		

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
NTMFSC0D9N04CL	NTMFSC0D9N04CL