Final Product/Process Change Notification

Document #:FPCN23971XA
Issue Date:18 Apr 2022

Title of Change:	Transfer of FS50 wafer technology from Macronix (MXIC) Taiwan to onsemi South Portland Maine FAB
Proposed First Ship date:	25 Jul 2022 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Seok-Ho.Choi@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 Marco.kang@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:	As material from different FABs cannot be combined in to (1) reel, product from Maine will show "Diffused In: US" on the label of the reel and box. Please see sample MPN on page 2 at the following link http://www.onsemi.com/pub_link/Collateral/LABELRM-D.PDF to see the location of the Diffused In notation.
Change Category:	Wafer Fab Change
Change Sub-Category(s):	Manufacturing Site Transfer

Sites Affected:

onsemi Sites	**External Foundry/Subcon Sites**
onsemi Maine, United States	None

Description and Purpose:

onsemi would like to inform out customers of the qualification of our FS50 Technology into our 8” South Portland Maine FAB, USA. This technology is currently processed out of our6” foundry Macronix (MXIC) in Taiwan. MXIC has announced it will discontinue this technology, thus necessitating the transfer.

While the language of the FPCN is to wait 90 days until shipments of first material, as there is no inventory of MXIC wafer, die, assembly WIP or finished goods either at onsemi or at our distributors, there will be no waiting period for approval or rejection of the PCN and deliveries will start immediately.. If a customer does not wish to receive product from the new wafer FAB, they should take action to cancel or push out all future orders. onsemi can no longer provide material from the original MXIC FAB site. Customers should work with their local sales contacts to cancel or push orders as needed.

	From	To
FAB Site	Macronix (MXIC) Taiwan	onsemi, S. Portland Maine
Wafer Size	6”	8”

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

Reliability Data Summary:

QV DEVICE NAME: FL7734MX
RMS: K72380, O79760
PACKAGE: SOIC16

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008hrs	0/231
TC	JESD22-A104	Ta= -55°C to + 150°C	1000cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs	0/231
PC	J-STD-020 JESD-A113	MSL3 @260°C		Pass

QV DEVICE NAME: FL7733AMX
RMS: K72044, O80421, O81140, K82841
PACKAGE: SOIC-8

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008hrs	0/231
TC	JESD22-A104	Ta= -55°C to + 150°C	1000cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs	0/231
PC	J-STD-020 JESD-A113	MSL1 @260°C		Pass

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
FAN9673Q	FL7733AMX, FL7734MX
FAN9672Q	FL7733AMX, FL7734MX