

Final Product/Process Change Notification

Document #:FPCN23971XD Issue Date:09 Nov 2022

Title of Change:	Transfer of FS50 wafer	Transfer of FS50 wafer technology from Macronix (MXIC) Taiwan to Diodes, Maine, US FAB		
Proposed First Ship date:	14 Feb 2023 or earlier i	14 Feb 2023 or earlier if approved by customer		
Contact Information:	Contact your local onse	emi Sales Office or Seok-Ho.Choi@onsemi.com		
PCN Samples Contact:	Initial PCN or Final PCN	be submitted no later than 30 days from the date of first notification, , for this change. g will be subject to request date, sample quantity and special customer		
Additional Reliability Data:	Contact your local onse	emi Sales Office or Dongsun.Park@onsemi.com		
Type of Notification:	90 days prior to implen onsemi will consider th	Process Change Notification (FPCN) sent to customers. FPCNs are issued nentation of the change. is change accepted, unless an inquiry is made in writing within 30 days of To do so, contact PCN.Support@onsemi.com		
Marking of Parts/ Traceability of Change:	combined in to (1) reel and box. Please see sample MPN	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		
Change Category:	Wafer Fab Change	Wafer Fab Change		
Change Sub-Category(s):	Manufacturing Site Tra	Manufacturing Site Transfer		
Sites Affected:				
onsemi Sites		External Foundry/Subcon Sites		

Description and Purpose:

None

onsemi would like to inform out customers of the qualification of our FS50 Technology into the 8" Diodes, Maine, US FAB Foundry. This technology was processed out of our 6" foundry Macronix (MXIC) in Taiwan. MXIC announced it will discontinue this technology, thus necessitating the transfer.

Diodes, Maine, United States

While the typical 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	То
FAB Site	Macronix (MXIC) Taiwan	Diodes, Maine, US
Wafer Size	6"	8"

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

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Reliability Data Summary:

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	1000сус	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 will be impacted as below.

lh a ua	lh area		Current		Future		
Item	Min	Тур	Max	Min	Тур	Max	Unit
IDD-ST		30	50		50	100	uA
VDD-OVP	23	24	25	23	24	25.5	V
fMIN-CC	23	26.5	30	24	29.5	33	KHz
tON-MAX	11	13	15	11	13.5	16	uS

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
FL7733AMX	FL7733AMX

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Appendix A: Changed Products

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DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FL7733AMX		FL7733AMX		