



Final Product/Process Change Notification

Document #:FPCN22383XC

Issue Date:11 Dec 2019

Title of Change:	Qualification of S. Portland Maine (8inch) as an additional Wafer FAB for HDG4/ HDG4D technology.	
Proposed First Ship date:	31 Mar 2020 or earlier if approved by customer	
Contact Information:	Contact your local ON Semiconductor Sales Office or Sungdae.Shin@onsemi.com	
PCN Samples Contact:	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.	
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or Jacob.Saliba@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. 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	
Marking of Parts/ Traceability of Change:	No change Marking / define date/week code.	
Change Category:	Wafer Fab Change	
Change Sub-Category(s):	Manufacturing Site Addition	
Sites Affected:		
ON Semiconductor Sites	External Foundry/Subcon Sites	
ON Semiconductor Maine, United States	None	
Description and Purpose:		
The purpose of this project is to expand Front-End wafer fabrication capacity and supply flexibility by the cross qualification of ON Bucheon Korea's (1.2um BCDMOS) 6 inch HDG4/ HDG4D fab process into ON S. Portland, Maine's 8 inch fab site.		
	Before Change Description	After Change Description
Fab Sites Qualified for HDG4D	ON Bucheon Korea – 6 inch Fab Site	ON Bucheon, Korea – 6 inch Fab Site
		ON S. Portland, Maine– 8 inch Fab Site

**Reliability Data Summary:**

QV DEVICE NAME: FAN73894MX

RMS : 48010, 50131, 51087

PACKAGE : SOICW28

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
TC-PC	JESD22-A104	Ta= -55°C to +150°C	500 cyc	0/231
HAST-PC	JESD22-A110	110°C, 85% RH, 18.8psig, 100V bias	264 hrs	0/231
uHAST-PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 3 @ 260 °C		0/693
RSH	JESD22- B106	Ta = 265C, 10 sec		0/40

QV DEVICE NAME: FSFR2100XS

RMS# : 48005

PACKAGE : SIP9

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=83°C, Tjmax=120C, 100 % max rated Vcc	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
TC	JESD22-A104	Ta= -55°C to +150°C	500 cyc	0/231
HAST	JESD22-A110	110°C, 85% RH, 18.8psig, 100V bias	628 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
RSH	JESD22- B106	Ta = 265C, 10 sec		0/40

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
FNB43060T2	FSFR2100XS, FAN73894MX
FND43060T2	FSFR2100XS, FAN73894MX
FND42060F2	FSFR2100XS, FAN73894MX
FSB50660SF	FSFR2100XS, FAN73894MX
FSB50660SFS	FSFR2100XS, FAN73894MX
FSB50760SF	FSFR2100XS, FAN73894MX
FSB50760SFS	FSFR2100XS, FAN73894MX



Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FSB50760SFS		FSFR2100XS, FAN73894MX		
FSB50760SF		FSFR2100XS, FAN73894MX		
FSB50660SF		FSFR2100XS, FAN73894MX		
FND42060F2		FSFR2100XS, FAN73894MX		
FND43060T2		FSFR2100XS, FAN73894MX		
FNB43060T2		FSFR2100XS, FAN73894MX		