



# Initial Product/Process Change Notification

Document #: IPCN25368X

Issue Date: 18 May 2023

<b>Title of Change:</b>	Qualification of Fab Location Transfer to Vanguard International Semiconductor Corporation (VIS)		
<b>Proposed First Ship date:</b>	30 Jan 2024 or earlier if approved by customer		
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Ahmad.Sarwari@onsemi.com">Ahmad.Sarwari@onsemi.com</a>		
<b>PCN Samples Contact:</b>	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.		
<b>Type of Notification:</b>	This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact < <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> >		
<b>Marking of Parts/ Traceability of Change:</b>	The affected products will be identified with date code.		
<b>Change Category:</b>	Wafer Fab Change		
<b>Change Sub-Category(s):</b>	Manufacturing Site Transfer		
<b>Sites Affected:</b>			
<b>onsemi Sites</b>		<b>External Foundry/Subcon Sites</b>	
None		Vanguard International Semiconductor, Taiwan	
<b>Description and Purpose:</b>			
This initial notification announces that onsemi is qualifying Vanguard wafer fabrication location for the purpose of wafer fab location transfer to Vanguard International Semiconductor Corporation (VIS).			
	<b>From</b>	<b>To</b>	
<b>Fab Site</b>	Diodes Incorporated (Diodes)	Vanguard International Semiconductor (VIS)	
There is no product marking change as a result of this change.			
<b>Qualification Plan:</b>			
<b>QV DEVICE NAME - FPF1320UCX</b>			
<b>RMS - 87986</b>			
<b>PACKAGE - WLCSP-6</b>			
<b>Test</b>	<b>Specification</b>	<b>Condition</b>	<b>Interval</b>
Early Life Failure Rate	AECQ100-008	TA=125C, 100% max rated vcc	48 hrs
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260C	
Temperature Cycling	JESD22-A104	Ta= -40°C to +125°C	850 cyc
Physical Dimensions	JESD22-B120		



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**QV DEVICE NAME : FSA5157L6X**

**RMS: 87943**

**PACKAGE: SIP-6**

Test	Specification	Condition	Interval
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260C	
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	500 cyc
Solderability	J STD 002B	Ta=245C 10 sec dwell B102	
Physical Dimensions	JESD22-B120		

**QV DEVICE NAME: FXMA2102L8X**

**RMS: S88603**

**PACKAGE: UQFN8 1.6x1.6, 0.5P**

Test	Specification	Condition	Interval
Earlier Life Failure Rate	JESD22-A108	Ta=125°C, 100 % max rated Vcc	48 hours
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hours
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hours
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C	-
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	500 cycles
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hours
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours

**QV DEVICE NAME: FXMA108BQX**

**RMS : S88604**

**PACKAGE: WQFN20 4.5x2.5, 0.5P**

Test	Specification	Condition	Interval
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hours
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hours
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C	-
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	500 cycles
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hours
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours

Estimated date for qualification completion: **29 September 2023**



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### 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
FXMA2102UMX	FXMA2102L8X
FXMAR2102UMX	FXMA2102L8X
FXMAR2102L8X	FXMA2102L8X
FXMAR2102UMX-F106	FXMA2102L8X
FXMAR2104UMX	FXMA108BQX, FXMA2102L8X
FXMA2102L8X	FXMA2102L8X
FXMA108BQX	FXMA108BQX, FXMA2102L8X
FSA5157L6X	FSA5157L6X
FPF1320UCX	FPF1320UCX