

Final Product/Process Change Notification

Document # : FPCN22191XG Issue Date: 15 May 2018

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Title of Change:	SOIC-8 Insourcing to ON Semiconductor Philippines (OSPI) Factory from HANA (Thailand) – Phase 2		
Proposed first ship date:	22 August 2018		
Contact information:	Contact your local ON Semiconductor Sales Office or <scott.brow@onsemi.com></scott.brow@onsemi.com>		
Samples:	Contact your local ON Semiconductor Sales Office		
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <kyungwon.kang@onsemi.com>.</kyungwon.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. 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>.</pcn.support@onsemi.com>		
Change Part Identification:	Product marked with date code 1820 or later may be built from current factory or from OSPI Factory. The trace code marking on Line 2 is of the form ALYW where A = Assembly Location, L = Wafer Lot ID and YW is a 2-digit date code. Product marked with "P" as the assembly location will be from OSPI. Additionally on the label of the box and reel, the ASSY LOC: PO will also indicate product assembled in OSPI. Please see sample label on Page 2 at the following URL http://www.onsemi.com/pub/Collateral/LABELRM-D.PDF to see the location of the ASSY LOC.		
Change category:	☐ Wafer Fab Change ☐ Assembly Change	☐ Test Change ☐ Other	
Change Sub-Category(s): ☐ Manufacturing Site Change/Addition ☐ Manufacturing Process Change ☐ Product specific change		□ Datasheet/Product Doc change☑ Shipping/Packaging/Marking□ Other:	
Sites Affected:	ON Semiconductor Sites: ON Carmona, Philippines	External Foundry/Subcon Sites: HANA, Thailand	

Description and Purpose:

ON Semiconductor would like to inform its customers of the qualification of ON Semiconductor Philippines (OSPI) for the assembly and test of all of the SOIC-8 products listed in this Final Product Change Notification (FPCN). This is a capacity expansion, and at the end of the FPCN approval cycle, these products may be dual sourced from either HANA, Thailand or from OSPI.

For Test, consigned testers and handlers as HANA have been transferred to OSPI to support the testing of products. The same load boards, test programs and other necessary hardware used in HANA, will be used to test the products listed.

For assembly, BOM changes associated with this FPCN are shown here:

Material to be changed	Before Change Description	After Change Description
Mold Compound	Hitachi CEL8240HF10LYR	Sumitomo G600
Die Attach	Henkel QMI 519	Henkel ABP-8062T

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Additionally, this FPCN serves to notify customers of a change in the marking for all products listed for **BOTH** sites, HANA and OSPI. The new marking will be of the form:



Line 1 is the Product Identification (see table for new Product IDs)

Line 2 is the Trace code with the following nomenclature: A = Assy Location, L = Wafer Lot ID, YW = 2 digit date code. The X at the end of the line is a wrap character if additional identification is needed from Line 1.

HANA: A = HOSPI: A = P

OPN	Line 1 Marking	
FAN7930BMX	7930B	
FAN7930BMX-G	7930B	
FAN7930CMX	7930C	

OPN	Line 1 Marking
FAN7930CMX-G	7930C
FL7930BMX-G	FL7930B
FL7930CMX-G	FL7930C

Reliability Data Summary:

QV DEVICE NAME <u>FAN7930BMX</u> RMS <u>K46691, O47069</u> PACKAGE <u>SOIC 8</u>

Specification	Condition	Interval	Results
JESD22-A108	Ta=125°C, 80 % max rated Vcc	1008 hrs	0/80
JESD22-A103	Ta= 150°C	1008 hrs	0/77
JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/80
JESD22-A101C	85°C, 85% RH, bias	504 hrs	0/80
JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/80
J-STD-020 JESD-A113	MSL 1 @ 260°C	-	0/320
JEDEC STD 035	Pre and Post MSL 1	-	0/25
JESD22- B106	Ta = 265C, 10 sec	-	0/30
JSTD002	Ta = 245C, 10 sec	-	0/15
JESD22-B100	Per POD, case 751EB	-	0/30
	JESD22-A108 JESD22-A103 JESD22-A104 JESD22-A101C JESD22-A118 J-STD-020 JESD-A113 JEDEC STD 035 JESD22- B106 JSTD002	JESD22-A108 Ta=125°C, 80 % max rated VCC JESD22-A103 Ta= 150°C JESD22-A104 Ta=-55°C to +150°C JESD22-A101C 85°C, 85% RH, bias JESD22-A118 130°C, 85% RH, 18.8psig, unbiased J-STD-020 JESD-A113 MSL 1 @ 260°C JEDEC STD 035 Pre and Post MSL 1 JESD22-B106 Ta = 265C, 10 sec JSTD002 Ta = 245C, 10 sec	JESD22-A108 Ta=125°C, 80 % max rated Vcc 1008 hrs JESD22-A103 Ta= 150°C 1008 hrs JESD22-A104 Ta= -55°C to +150°C 1000 cyc JESD22-A101C 85°C, 85% RH, bias 504 hrs JESD22-A118 130°C, 85% RH, 18.8psig, unbiased 96 hrs J-STD-020 JESD-A113 MSL 1 @ 260°C - JEDEC STD 035 Pre and Post MSL 1 - JESD22-B106 Ta = 265C, 10 sec - JSTD002 Ta = 245C, 10 sec -

Electrical Characteristic Summary:

Electrical characteristics are not impacted by this change. Electrical comparison reports are available upon request

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FL7930CMX-G

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List of Affected Standard Parts:			
Part Number	Qualification Vehicle		
FAN7930BMX			
FAN7930BMX-G			
FAN7930CMX	FANIZOZODNAV		
FAN7930CMX-G	FAN7930BMX		
FL7930BMX-G			

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