Final Product/Process Change Notification

Document #:FPCN24624X
Issue Date:10 Jan 2023

Title of Change:	Qualification of HANA Semiconductor, Thailand as the new assembly and test site for the part numbers listed in affected parts of SOIC16
Proposed First Ship date:	17 Apr 2023 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 Chielo.Basa@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:	Product marked with "H" as assembly location is built in HANA, Thailand.
Change Category:	Assembly Change, Test Change
Change Sub-Category(s):	Manufacturing Site Transfer, Material Change

Sites Affected:

onsemi Sites	**External Foundry/Subcon Sites**
None	HANA Semiconductor, Thailand

Description and Purpose:

onsemi would like to notify its customers of the qualification of HANA Semiconductor, Thailand for the new assembly and test of the part numbers listed in this Final Product Change notification (FPCN). At the expiry of this notification, the part numbers listed may be assembled in HANA Semiconductor, Thailand and there will be material changes as outlined in the table.

	From	To
Assembly Site	ATEC	HANA
Final Test Site	ATEC	HANA
Lead Frame	LF SOIC 16L CuAg	94x150 CuAg DRing BOT
Die Attach	EPOXY HE 841LMISR4 CON	EN4900LC-18
Mold Compound	MC COOKSON AMC2P 13MM X 3.9G	CV8214C
Wire	AU 0.9 / 1 MILS	AU 0.9 / 1 MILS

Reliability Data Summary:

QV DEVICE NAME: FAN9611MX
RMS: K81558; O85595
PACKAGE: SOIC 16

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta= 130°C, 100 % max rated Vcc	1008 hrs	0/240
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/240
TC	JESD22-A104	Ta= -55°C to + 150°C	1000 cyc	0/240
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/240
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only		0/720
PD	JESD22-B100 and JESD22-B108	Per Case Outline		0/30
SD	JSTD002	Ta = 245C, 5 sec		0/ 15

QV DEVICE NAME: FIN1031MX
RMS: O82308
PACKAGE: SOIC 16

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta= 125°C, 100 % max rated Vcc	1008 hrs	0/240
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/240
TC	JESD22-A104	Ta= -65°C to + 150°C	500 cyc	0/240
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/240
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only		0/720
PD	JESD22-B100 and JESD22-B108	Per Case Outline		0/30
SD	JSTD002	Ta = 245C, 5 sec		0/ 15

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
FIN1031MX	FIN1031MX
FIN1047MX	FIN1031MX
FIN1048MX	FIN1031MX
FAN9611MX	FAN9611MX