ON Semiconductor[®]



Initial Product/Process Change Notification Document # : IPCN21653X Issue Date: 4 March 2017

Title of Change:	Planned capacity expansion for eFuse DFN packages, assembly and test in ON Semiconductor's factory in Tarlac, Philippines and assembly in UTAC, Thailand.				
Proposed first ship date fo Tarlac Test:	30 June 2017				
Proposed first ship date fo Tarlac Assembly:	29 December 2017				
Proposed first ship date fo UTAC Assembly:	31 August 2017				
Contact information:	Contact your local ON Semiconductor Sales Office or <ed.pope@onsemi.com></ed.pope@onsemi.com>				
Samples:	Samples should be available after completion of qualification. Contact your local ON Semiconductor Sales Office.				
Type of notification:	This is an Initial Product/Process Change Notification (IPCN) sent to customers. IPCNs are issued at least 30 days prior to the issuance of the Final Change Notice (FPCN). 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 <pcn.support@onsemi.com>.</pcn.support@onsemi.com>				
Change Part Identification:	DC will identify the supply site	DC will identify the supply site			
Change category:	U Wafer Fab Change Assembly Change Test Change Other				
Change Sub-Category(s): Material Change Datasheet/Product Doc change Manufacturing Site Change/Addition Product specific change Shipping/Packaging/Marking Manufacturing Process Change Other:					
Sites Affected: Image: ON Semiconductor site(s) : Image: External Foundry/Subcon site(s) : All site(s) Image: ON Tarlac City, Philippines UTAC Thai Limited					
Description and Purpose: ON Semiconductor is pleased to announce additional capacity expansion for assembly and test at ON Semiconductor's factory in Tarlac, Philippines and assembly in UTAC, Thailand. The Final PCN will detail any lead frame, plating, epoxy, or mold compound changes. There will be no changes to the die or Data Sheet specifications. Existing assembly and test capacity will continue to be available from ON Semiconductor's current factory at Seremban, Malaysia.					
	Before Change	After Change			
Lead Frame	Description	Description			
ероху	Ag Plated L/F DFN3030	Per FPCN			
Mold Compound	DA AB 841LMISR4 CON	Per FPCN			
Wire	MC SU EMEG760	Per FPCN			
		1 mil Au 1 mil Au (No change)			
Die	CZ4 FAB, no change	CZ4 FAB, no change			



Qualification Plan for Assembly:

Test	Specification	Condition	Interval	Lots	Units/Lot
Test	opeenication	condition	interval	LOUS	011113/201
HTOL	JESD22-A108	Ta=125°C, 100% rated Vcc	1008 hrs	3	77
HTRB	JESD22-A108	Ta=125°C, 100% rated Vcc	1008 hrs	3	77
HTSL	JESD22-A103	Ta=150°C	1008 hrs	3	77
тс	JESD22-A104	Ta= -55°C to +150°C	1008 cycles	3	77
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	3	77
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	3	77
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		320x3	
RSH	JESD22-B106	Ta = 265°C, 10 Sec		3	10
SD	JSTD002	Ta = 245°C, 10 Sec		3	15

Estimated date for Tarlac Test Qualification completion: 30 Jun 2017 Estimated date for Tarlac Assembly Qualification: 29 Dec 2017 Estimated date for UTAC Assembly Qualification: 31 Aug 2017

List of affected Standard Parts:				
Part Number	Qualification Vehicle			
NIS5132MN1TXG				
NIS5132MN2TXG				
NIS5132MN3TXG				
NIS5135MN1TXG				
NIS5135MN2TXG				
NIS5135MN4TXG				