ON Semiconductor

INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION # 16694

Generic Copy

Issue Date: 26-Jul-2011

TITLE: Qualification of Vigilant Technology, Bangkok, Thailand for Assembly/Test of PDIP-7

PROPOSED FIRST SHIP DATE: 01-Jan-2012

AFFECTED CHANGE CATEGORY(S): Subcontractor Assembly/Test Location

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:
Contact your local ON Semiconductor Sales Office or <Scott.Brow@onsemi.com>

NOTIFICATION TYPE:

Initial Product/Process Change Notification (IPCN)

First change notification sent to customers. IPCNs are issued at least 120 days prior to implementation of the change. An IPCN is 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.

DESCRIPTION AND PURPOSE:

This is an Initial Product Change Notice to alert customers of the planned qualification of Vigilant Technology, Bangkok, Thailand, to assemble and test products in PDIP-7 lead packages. Vigilant will provide additional capacity to supplement ON Semiconductors' current assembly and test facility located at Unisem, Batam, Indonesia. Vigilant is a currently qualified for assembly/test to run PDIP8 lead packages within ON Semiconductor.

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QUALIFICATION PLAN:

The NCP1027P065G will be chosen as the qualification vehicle for this qualification. All reliability testing is expected to be completed by 23-Sept-2011.

Test	Ref.	Test Conditions	Accept	Read points	Minimum Sample Size	# of Lots	Total Units
Electrical Test	ON Product Spec	ON Product Spec	C = 0	See below	All devices		
AC	JA106	Ta = 121°C RH = 100%	C = 0	Test @ 0, 96hrs	80	3+1	320
UHST	JA118	130°C/85% RH for 96 hrs	C = 0	Test @ 96hrs	80	3+1	320
TC	JA104	-65°C to +150°C for 500 cycles	C = 0	Test @ 0, **500**, 1000	80	3+1	320
SAT	ON Product Spec		C = 0	Test @ 0, post TC500	5	3+1	20
WBP		Wire Bond Pull	C = 0	In-process	30	3	
BS		Bond Shear	C = 0	In-process	30	3	
SD		Solderability	C = 0	In-process	15	3	
X-ray			C = 0	In-process	30	3	
PD		Physical Dimensions	C = 0	In-process	30	3	

Samples will be available after completion of Qualification.

The electrical specifications will remain identical. A full electrical characterization over temperature will be performed for each device to ensure device functionality and electrical specifications.

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List of affected General Parts:

PART
NCP1010AP065G
NCP1010AP100G
NCP1010AP130G
NCP1011AP065G
NCP1011AP100G
NCP1011AP130G
NCP1012AP065G
NCP1012AP100G
NCP1012AP133G
NCP1013AP065G
NCP1013AP100G
NCP1013AP133G
NCP1014AP065G
NCP1014AP100G
NCP1015AP065G
NCP1015AP100G
NCP1027P065G
NCP1027P100G
NCP1028P065G
NCP1028P100G

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List of affected Customer Specific Parts:

PART
SCY99067P065G