

Title of Change:	Hydrazine elimination and 5-inch Production line cl	osure at ON Semiconductor Niigata Co., Ltd. (OSNC).	
Proposed first ship date:	2 March 2019		
Contact information:	Contact your local ON Semiconductor Sales Office or <tetsuya.fukushima@onsemi.com></tetsuya.fukushima@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:	Date Code		
Change category:	Wafer Fab 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:	ON Semiconductor Sites: ON Niigata, Japan	External Foundry/Subcon Sites: None	
Description and Purpose:			
resulting from the aging of 5-inch p	production equipment.	ostrates from our wafer manufacturers as well constraints red as a carcinogenic substance and has high risk of fire	
and explosion.			
Relevant products will get transfer Ltd. (OSNC).	rred to a 6-inch production line that do not use Hydra	azine within the same site, ON Semiconductor Niigata Co.,	
Change Point	Before Change Description	After Change Description	
Fab (OSNC)	N1 Fab (Minimum rule=0.8um, Class=100)	N1 Fab (Minimum rule=0.8um, Class=100) AND N2 Fab (Minimum rule=0.25um, Class=10)	
Equipment	5inch equipment	6inch equipment (Each function is the same)	
Si Sub material	5inch wafer	6inch wafer (No change except wafer diameter)	
Wire material	Aluminum (without Anti-reflected Layer)	Aluminum (with Anti-reflected Layer)	
Interlayer material	Silicon nitride and Polyimide or Polyimide	Silicon nitride and Silicon oxide or Oxide	



Qualification Plan:

QV DEVICE NAME <u>LV5609V-TLM-E</u> PACKAGE <u>SSOP20 (225mil)</u>

Test	Specification	Condition	Interval
HTOL	JESD22-A108	Tj=150°C, 100 % max rated Vcc	1008 hrs
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
TC	JESD22-A104	Ta= -65°C to +150°C	500 сус
THB	JESD22-A101	85°C, 85% RH, bias	1008 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig,	96 hrs
PC	J-STD-020 JESD-A113	MSL 3 @ 260 °C	-
HBM	JS001	100pF,1.5kohm	-
CDM	JS002		-

QV DEVICE NAME <u>LV8804FV-TLM-H</u> PACKAGE <u>SSOP20 (225mil)</u>

Test	Specification	Condition	Interval
HTOL	JESD22-A108	Tj=150°C, 100 % max rated Vcc	1008 hrs
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc
тнв	JESD22-A101	85°C, 85% RH, bias	1008 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig,	96 hrs
PC	J-STD-020 JESD-A113	MSL 3 @ 260 °C	-
HBM	JS001	100pF,1.5kohm	-
CDM	JS002		-

List of Affected Standard Parts:

Part Number	Qualification Vehicle
LV5609LP-E	LV5609V-TLM-E
LV5609LP-TE-L-E	LV5609V-TLM-E
LV5609V-TLM-E	LV5609V-TLM-E
LV8804FV-TLM-H	LV8804FV-TLM-H
LV8805SV-TLM-H	LV8804FV-TLM-H



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Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle	
LV5609LP-E		LV5609V-TLM-E	
LV5609LP-TE-L-E		LV5609V-TLM-E	
LV5609V-TLM-E		LV5609V-TLM-E	
LV8804FV-TLM-H		LV8804FV-TLM-H	
LV8805SV-TLM-H		LV8804FV-TLM-H	