



Title of Change:	Hydrazine elimination in ON Semiconductor Niigata Co., Ltd., Japan (OSNC).	
Proposed first ship date:	22 November 2018	
Contact information:	Contact your local ON Semiconductor Sales Office or < Tetsuya.Fukushima@onsemi.com >	
Samples:	Contact your local ON Semiconductor Sales Office.	
Type of notification:	<p>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.</p> <p>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>.</p>	
Change Part Identification:	Date Code	
Change category:	<input checked="" type="checkbox"/> Wafer Fab Change <input type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input type="checkbox"/> Other _____	
Change Sub-Category(s):	<input type="checkbox"/> Manufacturing Site Change/Addition <input type="checkbox"/> Material Change <input type="checkbox"/> Datasheet/Product Doc change <input checked="" type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Product specific change <input type="checkbox"/> Shipping/Packaging/Marking <input type="checkbox"/> Other: _____	
Sites Affected:	ON Semiconductor Sites: ON Niigata, Japan	External Foundry/Subcon Sites: None
Description and Purpose:		
<p>This initial notification announces the elimination of Hydrazine in ON Semiconductor Niigata Co., Ltd. Japan for parts listed in this PCN.</p> <p>Hydrazine was identified as a prohibited chemical in ON Semiconductor as it is considered as a carcinogenic substance and has high risk of fire and explosion.</p> <p>The related products are transferred to a process that does not use Hydrazine on the same site ON Semiconductor Niigata, Japan (OSNC).</p>		
	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)
Wire material	Aluminum (without Anti-reflected Layer)	Aluminium (with Anti-reflected Layer)
Interlayer material	Silicon nitride and Polyimide or Polyimide	Silicon nitride and Silicon oxide or Oxide



Qualification Plan:

QV DEVICE NAME: LB11870-TRM-E
PACKAGE: HSSOP48 (375 mil)

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
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: LA4440J-K-E
PACKAGE: SIP14H

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
HAST	JESD22-A101	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig,	96 hrs
HBM	JS001	100pF,1.5kohm	-
CDM	JS002		-

List of Affected Standard Parts:

Part Number	Qualification Vehicle
LA5693D-N-E	LA4440J-K-E
LA5693MD-AH	
L78LR05DL-MA-E	
L78LR05DL-TL-E	
L78LR05D-MA-E	
L78LR05D-TL-E	
L78LR05EL-TL-E	
L78LR05EL-TR-E	
L78LR05E-MA-E	
LA4440J-K-E	



LB1667M-TLM-E	LA4440J-K-E
LB1668M-W-AH	
LB1863M-W-AH	
LB1867M-TLM-H	
LB1868M-W-AH	
LB1638MC-AH	
LB1830MC-AH	
LA1225MC-AH	
LA6581DMR2G	
LA6583MC-W-AH	
LA6584JA-AH	
LA6584M-TLM-H	
LA6585TFA-BH	
LA6586FA-BH	
LA6588MC-W-AH	
LA6597FMC-AH	
LB11620T-TLM-H	
LB11660FV-W-AH	
LB11660RV-W-AH	
LB11685AV-W-AH	
LB11850VA-W-AH	
LB11851FA-BH	
LB11868V-W-AH	
LB11870-TRM-E	
LB11876-TLM-E	
LB11921T-TLM-E	
LB11923V-A-TLM-E	
LB11961V-TLM-H	
LB11961-W-AH	
LB11964FA-BH	
LB11967V-W-AH	
LB11970FV-W-AH	
LB1862MC-AH	
LB1962MC-AH	
LB1836M-TLM-E	
LB1838M-TRM-E	
LB1843V-TLM-E	
LB1848MC-AH	
LB1930MC-AH	
LB1935FA-BH	



LB1936V-TLM-E	LB11870-TRM-E
LB1938FA-BH	
LB1939T-TLM-E	
LB1940T-TLM-H	
LB1948MC-AH	
LB1973JA-AH	
LA5724MC-BH	

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle
L78LR05D-MA-E		LA4440J-K-E
L78LR05D-TL-E		LA4440J-K-E
L78LR05DL-MA-E		LA4440J-K-E
L78LR05DL-TL-E		LA4440J-K-E
L78LR05E-MA-E		LA4440J-K-E
L78LR05EL-TL-E		LA4440J-K-E
L78LR05EL-TR-E		LA4440J-K-E
LA1225MC-AH		LB11870-TRM-E
LA4440J-K-E	LA4440J-K-E	LA4440J-K-E
LA5693D-N-E		LA4440J-K-E
LA5693MD-AH		LA4440J-K-E
LA5724MC-BH		LB11870-TRM-E
LA6581DMR2G		LB11870-TRM-E
LA6584JA-AH		LB11870-TRM-E
LA6584M-TLM-H		LB11870-TRM-E
LA6585TFA-BH		LB11870-TRM-E
LA6586FA-BH		LB11870-TRM-E
LA6597FMC-AH		LB11870-TRM-E
LB11620T-TLM-H		LB11870-TRM-E
LB11660FV-W-AH		LB11870-TRM-E
LB11660RV-W-AH		LB11870-TRM-E
LB11685AV-W-AH		LB11870-TRM-E
LB11851FA-BH		LB11870-TRM-E
LB11870-TRM-E		LB11870-TRM-E
LB11876-TLM-E		LB11870-TRM-E
LB11921T-TLM-E		LB11870-TRM-E
LB11961-W-AH		LB11870-TRM-E
LB11961V-TLM-H		LB11870-TRM-E
LB11964FA-BH		LB11870-TRM-E
LB11967V-W-AH		LB11870-TRM-E
LB11970FV-W-AH		LB11870-TRM-E
LB1638MC-AH		LA4440J-K-E
LB1667M-TLM-E		LA4440J-K-E
LB1830MC-AH	LB1830MC-AH	LA4440J-K-E
LB1836M-TLM-E		LB11870-TRM-E
LB1838M-TRM-E		LB11870-TRM-E
LB1843V-TLM-E		LB11870-TRM-E
LB1848MC-AH		LB11870-TRM-E
LB1862MC-AH		LB11870-TRM-E
LB1867M-TLM-H		LA4440J-K-E
LB1930MC-AH		LB11870-TRM-E
LB1935FA-BH		LB11870-TRM-E
LB1936V-TLM-E		LB11870-TRM-E
LB1938FA-BH		LB11870-TRM-E
LB1939T-TLM-E		LB11870-TRM-E
LB1940T-TLM-H		LB11870-TRM-E
LB1948MC-AH		LB11870-TRM-E
LB1962MC-AH		LB11870-TRM-E
LB1973JA-AH		LB11870-TRM-E