



Title of Change:	Hydrazine elimination in ON Semiconductor Niigata Co., Ltd., Japan (OSNC).													
Proposed first ship date:	14 December 2019													
Contact information:	Contact your local ON Semiconductor Sales Office or <Yukio.Kudo@onsemi.com>													
Samples:	Contact your local ON Semiconductor Sales Office or <PCN.samples@onsemi.com> 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.													
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <Satoru.Fujinuma@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. ON Semiconductor 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>													
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 Addition <input type="checkbox"/> Material Change <input type="checkbox"/> Datasheet/Product Doc change <input type="checkbox"/> Manufacturing Site Transfer <input type="checkbox"/> Product specific change <input type="checkbox"/> Shipping/Packaging/Marking <input checked="" type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Other: _____													
Sites Affected:	ON Semiconductor Sites: ON Niigata, Japan	External Foundry/Subcon Sites: None												
Description and Purpose:														
<p>This final 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>														
	<table border="1"> <thead> <tr> <th>Change Point</th> <th>Before Change Description</th> <th>After Change Description</th> </tr> </thead> <tbody> <tr> <td>Fab (OSNC)</td> <td>N1 Fab (Minimum rule=0.8um, Class=10)</td> <td>N1 Fab (Minimum rule=0.8um, Class=10) AND N2 Fab (Minimum rule=0.25um, Class=1)</td> </tr> <tr> <td>Wire material</td> <td>Aluminum (without Anti-reflected Layer)</td> <td>Aluminium (with Anti-reflected Layer)</td> </tr> <tr> <td>Interlayer material</td> <td>Silicon nitride and Polyimide or Polyimide</td> <td>Silicon nitride and Silicon oxide or Oxide</td> </tr> </tbody> </table>		Change Point	Before Change Description	After Change Description	Fab (OSNC)	N1 Fab (Minimum rule=0.8um, Class=10)	N1 Fab (Minimum rule=0.8um, Class=10) AND N2 Fab (Minimum rule=0.25um, Class=1)	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
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**Reliability Data Summary:**

QV DEVICE NAME : LB11870-TRM-E
 RMS : J43387
 PACKAGE : HSSOP48(375mil)

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Tj=150°C, 100 % max rated Vcc	1008 hrs	0/77
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/77
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/77
THB	JESD22-A101	85°C, 85% RH, bias	1008 hrs	0/77
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig,	96 hrs	0/77
PC	J-STD-020 JESD-A113	MSL 3 @ 260 °C	-	PASS
HBM	JS001	100pF,1.5kohm,+/-1kV	-	0/3
CDM	JS002	+/-500V	-	0/3

Electrical Characteristic Summary:

There is no change in the electrical performance. Datasheet specifications remain unchanged.

List of Affected Parts:

Part Number	Qualification Vehicle
LB11988V-TLM-E	LB11870-TRM-E
LB11988HR-TLM-E	LB11870-TRM-E
LB1838JM-TRM-E	LB11870-TRM-E



Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle
LB11988HR-TLM-E		LB11870-TRM-E
LB11988V-TLM-E		LB11870-TRM-E
LB1838JM-TRM-E		LB11870-TRM-E