



Title of Change:	Qualification of VHVIC (Very High Voltage IC) Technology at AFSM (Aizu Fujitsu Semiconductor Manufacturing) Japan – Phase 2.5							
Proposed first ship date:	28 February 2018							
Contact information:	Contact your local ON Semiconductor Sales Office or <Scott.Brow@onsemi.com>							
Samples:	Contact your local ON Semiconductor Sales Office							
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <Tomas.Vajter@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:	Product will be identified by having a date code of 1808 or newer. As material from different FABS cannot be combined in to (1) reel, product from AFSM will show CS: JP (Custom Source) on the label of the reel and box. Please see sample MPN on Page 2 at the following URL http://www.onsemi.com/pub/Collateral/LABELRM-D.PDF to see the location of the CS Identifier.							
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 checked="" type="checkbox"/> Manufacturing Site Change/Addition <input type="checkbox"/> Material Change <input type="checkbox"/> Datasheet/Product Doc change <input 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: None	External Foundry/Subcon Sites: Aizu Fujitsu, Japan						
Description and Purpose:								
<p>ON Semiconductor would like to inform our customers that we have qualified our Very High Voltage IC (VHVIC) technology at the AFSM (Aizu Fujitsu Semiconductor Manufacturing) FAB in Aizu, Japan. This qualification enables expanded capacity for this technology.</p> <p>All products listed in this FPCN may be dual sourced from either its current ON Semiconductor Wafer FAB in Gresham, or AFSM. This is Phase 2 of the qualification and transfer. Subsequent FPCN's will be submitted for additional product releases in the coming months.</p>								
<table border="1"> <thead> <tr> <th>Material to be changed</th> <th>Before Change Description</th> <th>After Change Description</th> </tr> </thead> <tbody> <tr> <td>Wafer Fabrication Site</td> <td>ON Semiconductor Gresham, OR USA</td> <td>AFSM (Aizu, Japan) or ON Semiconductor (Gresham, USA)</td> </tr> </tbody> </table>			Material to be changed	Before Change Description	After Change Description	Wafer Fabrication Site	ON Semiconductor Gresham, OR USA	AFSM (Aizu, Japan) or ON Semiconductor (Gresham, USA)
Material to be changed	Before Change Description	After Change Description						
Wafer Fabrication Site	ON Semiconductor Gresham, OR USA	AFSM (Aizu, Japan) or ON Semiconductor (Gresham, USA)						

**Reliability Data Summary:**

QV DEVICE NAME NCP1076P065G
PACKAGE PDIP-8 (Less Pin 7)

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, 100 % max rated <u>V_{cc}</u>	1000 hrs	0/240
HTSL	JESD22-A103	Ta= 150°C	1000 hrs	0/240
TC	JESD22-A104	Ta= -65°C to +150°C	500 <u>cyc</u>	0/240
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/240
<u>uHAST</u>	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240

Electrical Characteristic Summary:

As the process was copied and matched from the sending FAB, electrical characteristics are not impacted by this change. Characterization reports are available upon request

List of Affected Parts:

Part Number	Qualification Vehicle
NCP1076P065G	NCP1076P065G
NCP1076P100G	NCP1076P065G
NCP1077P065G	NCP1076P065G
NCP1077P100G	NCP1076P065G
NCP1076P130G	NCP1076P065G
NCP1077P130G	NCP1076P065G
NCP1072P065G	NCP1076P065G
NCP1072P100G	NCP1076P065G
NCP1072P100BG	NCP1076P065G
NCP1075P065G	NCP1076P065G
NCP1075P100G	NCP1076P065G
NCP1075P130G	NCP1076P065G
NCP1060AD100R2G	NCP1076P065G
NCP1060AD060R2G	NCP1076P065G
NCP1060AP060G	NCP1076P065G
NCP1060AP100G	NCP1076P065G
NCP1060BD060R2G	NCP1076P065G
NCP1060BD100R2G	NCP1076P065G
NCP1063AD060R2G	NCP1076P065G



NCP1063AD100R2G	NCP1076P065G
NCP1063AP060G	NCP1076P065G
NCP1063AP100G	NCP1076P065G
SC1076P065G	NCP1076P065G

Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle
NCP1060AD060R2G		NCP1076P065G
NCP1060AD100R2G		NCP1076P065G
NCP1060AP060G		NCP1076P065G
NCP1060AP100G		NCP1076P065G
NCP1060BD060R2G		NCP1076P065G
NCP1060BD100R2G		NCP1076P065G
NCP1063AD060R2G		NCP1076P065G
NCP1063AD100R2G		NCP1076P065G
NCP1063AP060G		NCP1076P065G
NCP1063AP100G		NCP1076P065G
NCP1072P065G		NCP1076P065G
NCP1072P100BG		NCP1076P065G
NCP1072P100G		NCP1076P065G
NCP1075P065G		NCP1076P065G
NCP1075P100G		NCP1076P065G
NCP1075P130G		NCP1076P065G
NCP1076P065G		NCP1076P065G
NCP1076P100G		NCP1076P065G
NCP1076P130G		NCP1076P065G
NCP1077P065G		NCP1076P065G
NCP1077P100G		NCP1076P065G
NCP1077P130G		NCP1076P065G
SC1076P065G		NCP1076P065G