



<b>Title of Change:</b>	Trench 6 Technology Capacity Expansion by Qualification of Aizu Fujitsu Semiconductor Manufacturing, Japan
<b>Proposed first ship date:</b>	25 September 2015
<b>Contact information:</b>	Contact your local ON Semiconductor Sales Office or Mohd Hezri Abu Bakar <MohdHezri.AbuBakar@onsemi.com>
<b>Samples:</b>	Contact your local ON Semiconductor Sales Office or Michael Mooney <Michael.Mooney@onsemi.com>
<b>Additional Reliability Data:</b>	Contact your local ON Semiconductor Sales Office or Office or Donna Scheuch <Donna.Scheuch@onsemi.com>
<b>Type of notification:</b>	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>.
<b>Change Part Identification:</b>	Affected parts will be identified with a date code of WW38'15 or later
<b>Change category:</b>	<input checked="" type="checkbox"/> Wafer Fab Change <input type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input type="checkbox"/> Other _____
<b>Change Sub-Category(s):</b>	<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: _____
<b>Sites Affected:</b>	<input type="checkbox"/> All site(s) <input type="checkbox"/> not applicable <input type="checkbox"/> ON Semiconductor site(s) : <input checked="" type="checkbox"/> External Foundry/Subcon site(s) <span style="margin-left: 600px;">Aizu Fujitsu Semiconductor Manufacturing, Japan</span>
<b>Description and Purpose:</b>	<p>This is a final change notification to customers on the qualification of additional wafer fabrication capacity of 30V Trench (T6) MOSFET technology in Aizu Fujitsu Semiconductor Manufacturing (AFSM) located in Aizu, Japan. At the expiration of this notification, all products listed here will be dual sourced from its current ON Semiconductor wafer fab in Gresham and AFSM.</p>

**Reliability Data Summary:****NTMFS4C05NT1G**

Package: S08FL

Test	Specification	Condition	Interval	Sample Size	Results
HTRB	JESD22-A108	Ta=150°C, 80% max rated Vdss	504 hrs	80pc/3 lots	0/240
HTGB	JESD22-A108	Ta=150°C, 100% max rated Vgss	504 hrs	80pc/3 lots	0/240
HTSL	JESD22-A103	Ta=150°C	504 hrs	80pc/3 lots	0/240
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	7500 cyc	80pc/3 lots	0/240
TC	JESD22-A104	Ta=-55°C to +150°C	500 cyc	80pc/3 lots	0/240
HAST	JESD22-A110	131°C, 85% RH, 18.8psig, bias	96 hrs	80pc/3 lots	0/240
uHAST	JESD22-A118	131°C, 85% RH, 18.8psig, unbiased	96 hrs	80pc/3 lots	0/240

**NTTFS4C05NTAG**

Package: u8FL

Test	Specification	Condition	Interval	Sample Size	Results
HTRB	JESD22-A108	Ta=150°C, 80% max rated Vdss	504 hrs	80pc/1 lot	0/80
HTGB	JESD22-A108	Ta=150°C, 100% max rated Vgss	504 hrs	80pc/1 lot	0/80
HTSL	JESD22-A103	Ta=150°C	504 hrs	80pc/1 lot	0/80
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	7500 cyc	80pc/1 lot	0/80
TC	JESD22-A104	Ta=-55°C to +150°C	500 cyc	80pc/1 lot	0/80
HAST	JESD22-A110	131°C, 85% RH, 18.8psig, bias	96 hrs	80pc/1 lot	0/80
uHAST	JESD22-A118	131°C, 85% RH, 18.8psig, unbiased	96 hrs	80pc/1 lot	0/80

**Electrical Characteristic Summary:**

Electrical characteristics are not impacted.



**List of Affected Standard Parts:**

Part Number	Qualification Vehicle
NTMFS4C05NT1G	NTMFS4C05NT1G
NTMFS4C05NT3G	NTMFS4C05NT1G
NTMFS4C06NT1G	NTMFS4C05NT1G
NTMFS4C08NT1G	NTMFS4C05NT1G
NTMFS4C08NT3G	NTMFS4C05NT1G
NTMFS4C09NT1G	NTMFS4C05NT1G
NTMFS4C09NT3G	NTMFS4C05NT1G
NTMFS4C10NT1G	NTMFS4C05NT1G
NTMFS4C13NT1G	NTMFS4C05NT1G
NTMFS4C13NT3G	NTMFS4C05NT1G
NTMFS4C35NT1G	NTMFS4C05NT1G
NTMFS4C35NT3G	NTMFS4C05NT1G
NTTFS4C05NTAG	NTTFS4C05NTAG
NTTFS4C05NTWG	NTTFS4C05NTAG
NTTFS4C06NTAG	NTTFS4C05NTAG
NTTFS4C06NTWG	NTTFS4C05NTAG
NTTFS4C08NTAG	NTTFS4C05NTAG
NTTFS4C10NTAG	NTTFS4C05NTAG
NTTFS4C10NTWG	NTTFS4C05NTAG
NTTFS4C13NTAG	NTTFS4C05NTAG
NTTFS4C13NTWG	NTTFS4C05NTAG