



Title of Change:	Qualification of Niigata Fab (Japan) as the additional wafer source for Small Signal and BRT Transistors.	
Proposed first ship date:	9 February 2018	
Contact information:	Contact your local ON Semiconductor Sales Office or <Hiroshi.Koizumi@onsemi.com>	
Samples:	Contact your local ON Semiconductor Sales Office	
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <Dustin.Tenney@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:	Affected devices from ON Semiconductor with date code Jan 2018 and greater may be sourced from either ON Semiconductor ISMF FAB, Seremban or ON Niigata, Japan.	
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: ON Niigata, Japan	External Foundry/Subcon Sites:
Description and Purpose:		
<p>This is ON Semiconductor FPCN is to notify customers of its plan to add Niigata Fab (Japan) as a qualified wafer source for Small Signal and BRT Transistor.</p> <p>The Niigata Fab facility is an ON Semiconductor owned wafer fab that has been producing products for ON Semiconductor. Several existing technologies within ON Semiconductor’s product families are currently sourced from Niigata Fab. ON Semiconductor Niigata Wafer Fab is an internal factory that is TS16949, ISO-9001 and ISO-14000 certified.</p> <p>Qualification tests are designed to show that the reliability of the impacted devices will continue to meet or exceed ON Semiconductor standards</p>		

**Reliability Data Summary:**QV DEVICE NAME BCX19LT1GRMS: 23103PACKAGE: SOT23

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta=150°C,	1008 hrs	0/240
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs	0/240
Autoclave	JESD22-A102	Ta=121°C, RH=100% 15psig	96 hrs	0/240
HAST	JESD22-A110	Ta= 130°C, 85% RH, 80%bias	96 hrs	0/240
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/240
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/240
RSH	JESD22- B106	Ta = 260C, 10 sec		0/30

QV DEVICE NAME MMBT589LT1GRMS: 23105, 25360PACKAGE: SOT23

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta=150°C,	1008 hrs	0/240
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs	0/240
Autoclave	JESD22-A102	Ta=121°C, RH=100% 15psig	96 hrs	0/240
HAST	JESD22-A110	Ta= 130°C, 85% RH, 80%bias	96 hrs	0/240
UHAST	JESD22-A118	Ta= 130°C, 85% RH	96 hrs	0/240
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/240
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/240
RSH	JESD22- B106	Ta = 260C, 10 sec		0/30

QV DEVICE NAME DTC115EM3T5GRMS: 23101, 26242PACKAGE: SC70

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta=150°C,	1008 hrs	0/80
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs	0/80
Autoclave	JESD22-A102	Ta=121°C, RH=100% 15psig	96 hrs	0/80
HAST	JESD22-A110	Ta= 130°C, 85% RH, 80%bias	96 hrs	0/80
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/80
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/80
RSH	JESD22- B106	Ta = 260C, 10 sec		0/30

**QV DEVICE NAME** DTC114YET1G**RMS:** 23100**PACKAGE:** SC75

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta=150°C,	1008 hrs	0/80
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs	0/80
Autoclave	JESD22-A102	Ta=121°C, RH=100% 15psig	96 hrs	0/80
HAST	JESD22-A110	Ta= 130°C, 85% RH, 80%bias	96 hrs	0/80
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/80
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/80
RSH	JESD22- B106	Ta = 260C, 10 sec		0/30

QV DEVICE NAME MUN5230T1G**RMS:** 23098, 25174**PACKAGE:** SC70

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta=150°C,	1008 hrs	0/80
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs	0/80
Autoclave	JESD22-A102	Ta=121°C, RH=100% 15psig	96 hrs	0/80
HAST	JESD22-A110	Ta= 130°C, 85% RH, 80%bias	96 hrs	0/80
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/80
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/80
RSH	JESD22- B106	Ta = 260C, 10 sec		0/30

QV DEVICE NAME SMMUN2214LT1G**RMS:** 23102**PACKAGE:** SOT23

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta=150°C,	1008 hrs	0/240
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs	0/240
Autoclave	JESD22-A102	Ta=121°C, RH=100% 15psig	96 hrs	0/240
HAST	JESD22-A110	Ta= 130°C, 85% RH, 80%bias	96 hrs	0/240
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/240
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/240

Electrical Characteristic Summary:

Electrical characteristics are not impacted.



List of Affected Parts:

Product ID	Qualification Vehicle
2SA1774G	
2SA1774T1G	
BC846ALT1G	
BC846ALT3G	
BC847ALT1G	
BC847AWT1G	
BC848ALT1G	
BC857CDW1T1G	
BC857CLT1G	
BC857CLT3G	
BC857CWT1G	
BC858CDXV6T1G	
BC858CLT1G	
BC858CLT3G	
BSS63LT1G	
EMT1DXV6T1G	
EMT1DXV6T5G	
EMX1DXV6T1G	
EMX1DXV6T5G	
EMX2DXV6T5G	
HN1B01FDW1T1G	
MBT6429DW1T1G	
MMBT2484LT1G	
MMBT2484LT3G	
MMBT3416LT3G	
MMBT5088LT1G	
MMBT5089LT1G	
MMBT6427LT1G	
MMBT6428LT1G	
MMBT6429LT1G	
MMBT6521LT1G	
MMBT8099LT1G	
MMBTA13LT1G	
MMBTA13LT3G	
MMBTA14LT1G	
MMBTA63LT1G	
MMBTA64LT1G	
MMBTA64LT3G	

BCX19LT1G, MMBT589LT1G



Product ID	Qualification Vehicle
MSA1162GT1G	BCX19LT1G, MMBT589LT1G
MSB1218A-RT1G	
MSC2712GT1G	
MSD1819A-RT1G	
MSD601-RT1G	
NST30010MXV6T1G	
NST45011MW6T1G	
NST65010MW6T1G	
NST65011MW6T1G	
UMZ1NT1G	
DTA113EET1G	
DTA114TET1G	
DTA115EET1G	
DTA115TET1G	
DTA123EET1G	
DTA123JET1G	
DTA123TET1G	
DTA124XET1G	
DTA143EET1G	
DTA143TET1G	
DTA143ZET1G	
DTA144TET1G	
DTA144WET1G	
DTC113EET1G	
DTC114TET1G	
DTC115TET1G	
DTC123EET1G	
DTC123TET1G	
DTC144TET1G	
DTC144WET1G	
IMD10AMT1G	
IMH20TR1G	
MMUN2115LT1G	
MMUN2116LT1G	
MMUN2130LT1G	
MMUN2131LT1G	



Product ID	Qualification Vehicle
MMUN2132LT1G	DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2133LT1G	
MMUN2134LT1G	
MMUN2135LT1G	
MMUN2136LT1G	
MMUN2137LT1G	
MMUN2138LT1G	
MMUN2140LT1G	
MMUN2141LT1G	
MMUN2215LT1G	
MMUN2217LT1G	
MMUN2231LT1G	
MMUN2235LT1G	
MMUN2237LT1G	
MMUN2238LT1G	
MMUN2240LT1G	
MMUN2241LT1G	
MUN2115T1G	
MUN2116T1G	
MUN2130T1G	
MUN2131T1G	
MUN2132T1G	
MUN2133T1G	
MUN2134T1G	
MUN2135T1G	
MUN2136T1G	
MUN2137T1G	
MUN2138T1G	
MUN2140T1G	
MUN2141T1G	
MUN2215T1G	
MUN2231T1G	
MUN2235T1G	
MUN2237T1G	
MUN2238T1G	
MUN2240T1G	
MUN2241T1G	
MUN5115DW1T1G	
MUN5115T1G	
MUN5116DW1T1G	



Product ID	Qualification Vehicle
MUN5116T1G	DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN5130DW1T1G	
MUN5130T1G	
MUN5131DW1T1G	
MUN5131T1G	
MUN5132DW1T1G	
MUN5132T1G	
MUN5133DW1T1G	
MUN5133T1G	
MUN5134DW1T1G	
MUN5134T1G	
MUN5135DW1T1G	
MUN5135T1G	
MUN5136DW1T1G	
MUN5136T1G	
MUN5137DW1T1G	
MUN5137T1G	
MUN5138T1G	
MUN5140T1G	
MUN5141T1G	
MUN5215DW1T1G	
MUN5215T1G	
MUN5231DW1T1G	
MUN5231T1G	
MUN5237DW1T1G	
MUN5237T1G	
MUN5238T1G	
MUN5240T1G	
MUN5241T1G	
MUN5315DW1T1G	
MUN5331DW1T1G	
NSBA113EDXV6T1G	
NSBA114TDXV6T1G	
NSBA114TDXV6T5G	
NSBA115EDXV6T1G	
NSBA123EDXV6T1G	
NSBA123JDXV6T5G	
NSBA124XDXV6T1G	
NSBA143EDXV6T1G	



Product ID	Qualification Vehicle
NSBA143TDXV6T1G	DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
NSBA143TDXV6T5G	
NSBA143ZDXV6T1G	
NSBA144WDXV6T1G	
NSBC113EPDXV6T1G	
NSBC114EPDXV6T1G	
NSBC114EPDXV6T5G	
NSBC114TDXV6T1G	
NSBC114TDXV6T5G	
NSBC114TPDXV6T1G	
NSBC114YPDXV6T1G	
NSBC114YPDXV6T5G	
NSBC123EDXV6T1G	
NSBC123EPDXV6T1G	
NSBC123JPDXV6T1G	
NSBC123JPDXV6T5G	
NSBC124EPDXV6T1G	
NSBC124EPDXV6T5G	
NSBC143EPDXV6T1G	
NSBC143TPDXV6T1G	
NSBC143ZPDXV6T1G	
NSBC144EPDXV6T1G	
NSBC144EPDXV6T5G	
NSBC144WDXV6T1G	
NUS2401SNT1G	

Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle
2SA1774G		BCX19LT1G, MMBT589LT1G
2SA1774T1G		BCX19LT1G, MMBT589LT1G
BC846ALT1G		BCX19LT1G, MMBT589LT1G
BC846ALT3G		BCX19LT1G, MMBT589LT1G
BC847ALT1G		BCX19LT1G, MMBT589LT1G
BC847AWT1G		BCX19LT1G, MMBT589LT1G
BC848ALT1G		BCX19LT1G, MMBT589LT1G
BC857CDW1T1G		BCX19LT1G, MMBT589LT1G
BC857CLT1G		BCX19LT1G, MMBT589LT1G
BC857CLT3G		BCX19LT1G, MMBT589LT1G
BC857CWT1G		BCX19LT1G, MMBT589LT1G
BC858CDXV6T1G		BCX19LT1G, MMBT589LT1G
BC858CLT1G		BCX19LT1G, MMBT589LT1G
BC858CLT3G		BCX19LT1G, MMBT589LT1G
BSS63LT1G		BCX19LT1G, MMBT589LT1G
DTA113EET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTA114TET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTA115EET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTA115TET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTA123EET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTA123JET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTA123TET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTA124XET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTA143EET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTA143TET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTA143ZET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTA144TET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTA144WET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTC113EET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTC114TET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTC115TET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTC123EET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTC123TET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTC144TET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
DTC144WET1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
EMT1DXV6T1G		BCX19LT1G, MMBT589LT1G
EMT1DXV6T5G		BCX19LT1G, MMBT589LT1G
EMX1DXV6T1G		BCX19LT1G, MMBT589LT1G
EMX1DXV6T5G		BCX19LT1G, MMBT589LT1G
EMX2DXV6T5G		BCX19LT1G, MMBT589LT1G
HN1B01FDW1T1G		BCX19LT1G, MMBT589LT1G
IMD10AMT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G



IMH20TR1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MBT6429DW1T1G		BCX19LT1G, MMBT589LT1G
MMBT2484LT1G		BCX19LT1G, MMBT589LT1G
MMBT2484LT3G		BCX19LT1G, MMBT589LT1G
MMBT3416LT3G		BCX19LT1G, MMBT589LT1G
MMBT5088LT1G		BCX19LT1G, MMBT589LT1G
MMBT5089LT1G		BCX19LT1G, MMBT589LT1G
MMBT6427LT1G		BCX19LT1G, MMBT589LT1G
MMBT6428LT1G		BCX19LT1G, MMBT589LT1G
MMBT6429LT1G		BCX19LT1G, MMBT589LT1G
MMBT6521LT1G		BCX19LT1G, MMBT589LT1G
MMBT8099LT1G		BCX19LT1G, MMBT589LT1G
MMBTA13LT1G		BCX19LT1G, MMBT589LT1G
MMBTA13LT3G		BCX19LT1G, MMBT589LT1G
MMBTA14LT1G		BCX19LT1G, MMBT589LT1G
MMBTA63LT1G		BCX19LT1G, MMBT589LT1G
MMBTA64LT1G		BCX19LT1G, MMBT589LT1G
MMBTA64LT3G		BCX19LT1G, MMBT589LT1G
MMUN2115LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2116LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2130LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2131LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2132LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2133LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2134LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2135LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2136LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2137LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2138LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2140LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2141LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2215LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2217LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2231LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2235LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2237LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2238LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2240LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MMUN2241LT1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MSA1162GT1G		BCX19LT1G, MMBT589LT1G
MSB1218A-RT1G		BCX19LT1G, MMBT589LT1G
MSC2712GT1G		BCX19LT1G, MMBT589LT1G
MSD1819A-RT1G		BCX19LT1G, MMBT589LT1G
MSD601-RT1G		BCX19LT1G, MMBT589LT1G
MUN2115T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2116T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2130T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G



MUN2131T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2132T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2133T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2134T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2135T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2136T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2137T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2138T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2140T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2141T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2215T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2231T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2235T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2237T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2238T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2240T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
MUN2241T1G		DTC115EM3T5G, DTC114YET1G, MUN5230T1G, SMMUN2214LT1G
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