



Title of Change:	Qualification of ON Niigata, Japan as additional wafer source for ON Semiconductor Zener products	
Proposed first ship date:	7 February 2018 or earlier after customer approval	
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 <Masahiro.Kanno@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 Feb 2018 and greater may be sourced from either ON Semiconductor ISMF FAB, Seremban or ON Niigata, Japan.	
Change category:	☒ Wafer Fab Change ☐ Assembly Change ☐ Test Change ☐ Other _____	
Change Sub-Category(s):	☒ Manufacturing Site Change/Addition ☐ Manufacturing Process Change ☐ Material Change ☐ Product specific change ☐ Datasheet/Product Doc change ☐ Shipping/Packaging/Marking ☐ Other: _____	
Sites Affected:	ON Semiconductor Sites: ON Niigata, Japan	External Foundry/Subcon Sites:
Description and Purpose: ON Semiconductor is notifying customers of the qualification of ON Niigata, Japan as additional wafer source for ON Semiconductor Zener products. The affected products listed in this notification are currently sourced from ON Semiconductor ISMF fabrication facility in Seremban, Malaysia. 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. Qualification tests are designed to show that the reliability of the transferred devices will continue to meet or exceed ON Semiconductor standards		



Reliability Data Summary:

NUP2105LT1G

PACKAGE: SOT-23

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta= 150°C, 80% max rated V	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C on/off = 2 min	15000 cyc	0/231
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @260°C	-	Pass
RSH	JESD22- B106	Ta= 265C, 10 sec	-	0/30

MMBZ5270BLT1G

PACKAGE: SOT-23

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta= 150°C, 80% max rated V	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C on/off = 2 min	15000 cyc	0/231
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @260°C	-	Pass
RSH	JESD22- B106	Ta= 265C, 10 sec	-	0/30

**MM3Z75VT1G****PACKAGE: SOD-323**

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs	0/154
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/154
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C on/off = 2 min	15000 cyc	0/154
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/154
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/154
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/154
PC	J-STD-020 JESD-A113	MSL 1 @260°C	-	Pass
RSH	JESD22- B106	Ta= 265C, 10 sec	-	0/20

MMSZ5270BT1G**PACKAGE: SOD-123**

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs	0/154
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/154
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C on/off = 2 min	15000 cyc	0/154
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/154
H3TRB	JESD22-A110	85°C, 85% RH, bias	1008 hrs	0/154
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/154
PC	J-STD-020 JESD-A113	MSL 1 @260°C	-	Pass
RSH	JESD22- B106	Ta= 265C, 10 sec	-	0/20

Electrical Characteristic Summary:

Electrical characteristics are not impacted by this change. Characterization data is available upon request.



List of Affected Standard Parts:

Part Number	Qualification Vehicle	Part Number	Qualification Vehicle
MM3Z10VST1G	MM3Z75VT1G	MMBZ5261BLT1G	MMBZ5270BLT1G
MM3Z10VT1G	MM3Z75VT1G	MMBZ5261ELT1G	MMBZ5270BLT1G
MM3Z11VST1G	MM3Z75VT1G	MMBZ5263BLT1G	MMBZ5270BLT1G
MM3Z11VT1G	MM3Z75VT1G	MMBZ5264BLT1G	MMBZ5270BLT1G
MM3Z12VST1G	MM3Z75VT1G	MMBZ5268BLT1G	MMBZ5270BLT1G
MM3Z12VT1G	MM3Z75VT1G	MMBZ5270BLT1G	MMBZ5270BLT1G
MM3Z13VST1G	MM3Z75VT1G	MMSZ10T1G	MMSZ5270BT1G
MM3Z13VT1G	MM3Z75VT1G	MMSZ11T1G	MMSZ5270BT1G
MM3Z15VST1G	MM3Z75VT1G	MMSZ12T1G	MMSZ5270BT1G
MM3Z15VT1G	MM3Z75VT1G	MMSZ13T1G	MMSZ5270BT1G
MM3Z16VST1G	MM3Z75VT1G	MMSZ15T1G	MMSZ5270BT1G
MM3Z16VT1G	MM3Z75VT1G	MMSZ16T1G	MMSZ5270BT1G
MM3Z18VST1G	MM3Z75VT1G	MMSZ18ET1G	MMSZ5270BT1G
MM3Z18VT1G	MM3Z75VT1G	MMSZ18T1G	MMSZ5270BT1G
MM3Z20VST1G	MM3Z75VT1G	MMSZ18T1H	MMSZ5270BT1G
MM3Z20VT1G	MM3Z75VT1G	MMSZ18T3G	MMSZ5270BT1G
MM3Z22VST1G	MM3Z75VT1G	MMSZ20T1G	MMSZ5270BT1G
MM3Z22VT1G	MM3Z75VT1G	MMSZ22T1G	MMSZ5270BT1G
MM3Z24VST1G	MM3Z75VT1G	MMSZ24T1G	MMSZ5270BT1G
MM3Z24VT1G	MM3Z75VT1G	MMSZ27T1G	MMSZ5270BT1G
MM3Z27VST1G	MM3Z75VT1G	MMSZ27T3G	MMSZ5270BT1G
MM3Z27VT1G	MM3Z75VT1G	MMSZ30T1G	MMSZ5270BT1G
MM3Z27VT3G	MM3Z75VT1G	MMSZ33T1G	MMSZ5270BT1G
MM3Z30VST1G	MM3Z75VT1G	MMSZ36T1G	MMSZ5270BT1G
MM3Z30VT1G	MM3Z75VT1G	MMSZ39T1G	MMSZ5270BT1G
MM3Z33VST1G	MM3Z75VT1G	MMSZ43T1G	MMSZ5270BT1G
MM3Z33VT1G	MM3Z75VT1G	MMSZ4697T1G	MMSZ5270BT1G
MM3Z33VT3G	MM3Z75VT1G	MMSZ4698T1G	MMSZ5270BT1G
MM3Z36VST1G	MM3Z75VT1G	MMSZ4699T1G	MMSZ5270BT1G
MM3Z36VT1G	MM3Z75VT1G	MMSZ4700T1G	MMSZ5270BT1G
MM3Z39VST1G	MM3Z75VT1G	MMSZ4701ET1G	MMSZ5270BT1G
MM3Z39VT1G	MM3Z75VT1G	MMSZ4701T1G	MMSZ5270BT1G
MM3Z43VT1G	MM3Z75VT1G	MMSZ4702T1G	MMSZ5270BT1G
MM3Z47VT1G	MM3Z75VT1G	MMSZ4703T1G	MMSZ5270BT1G
MM3Z51VT1G	MM3Z75VT1G	MMSZ4704T1G	MMSZ5270BT1G
MM3Z56VT1G	MM3Z75VT1G	MMSZ4705T1G	MMSZ5270BT1G



Part Number	Qualification Vehicle	Part Number	Qualification Vehicle
MM3Z62VT1G	MM3Z75VT1G	MMSZ4706T1G	MMSZ5270BT1G
MM3Z68VT1G	MM3Z75VT1G	MMSZ4707T1G	MMSZ5270BT1G
MM3Z75VT1G	MM3Z75VT1G	MMSZ4708T1G	MMSZ5270BT1G
BZX84B10LT1G	MMBZ5270BLT1G	MMSZ4709T1G	MMSZ5270BT1G
BZX84B12LT1G	MMBZ5270BLT1G	MMSZ4710T1G	MMSZ5270BT1G
BZX84B15LT1G	MMBZ5270BLT1G	MMSZ4711T1G	MMSZ5270BT1G
BZX84B16LT1G	MMBZ5270BLT1G	MMSZ4713T1G	MMSZ5270BT1G
BZX84B18LT1G	MMBZ5270BLT1G	MMSZ4714T1G	MMSZ5270BT1G
BZX84B22LT1G	MMBZ5270BLT1G	MMSZ4715T1G	MMSZ5270BT1G
BZX84B24LT1G	MMBZ5270BLT1G	MMSZ4717T1G	MMSZ5270BT1G
BZX84B27LT1G	MMBZ5270BLT1G	MMSZ47T1G	MMSZ5270BT1G
BZX84C10LT1G	MMBZ5270BLT1G	MMSZ47T3G	MMSZ5270BT1G
BZX84C11LT1G	MMBZ5270BLT1G	MMSZ51T1G	MMSZ5270BT1G
BZX84C12LT1G	MMBZ5270BLT1G	MMSZ5240BT1G	MMSZ5270BT1G
BZX84C13LT1G	MMBZ5270BLT1G	MMSZ5240BT3G	MMSZ5270BT1G
BZX84C15LT1G	MMBZ5270BLT1G	MMSZ5241BT1G	MMSZ5270BT1G
BZX84C15LT3G	MMBZ5270BLT1G	MMSZ5242BT1G	MMSZ5270BT1G
BZX84C16LT1G	MMBZ5270BLT1G	MMSZ5242BT3G	MMSZ5270BT1G
BZX84C18LT1G	MMBZ5270BLT1G	MMSZ5242ET1G	MMSZ5270BT1G
BZX84C18LT3G	MMBZ5270BLT1G	MMSZ5243BT1G	MMSZ5270BT1G
BZX84C20LT1G	MMBZ5270BLT1G	MMSZ5244BT1G	MMSZ5270BT1G
BZX84C22LT1G	MMBZ5270BLT1G	MMSZ5244ET1G	MMSZ5270BT1G
BZX84C24LT1G	MMBZ5270BLT1G	MMSZ5245BT1G	MMSZ5270BT1G
BZX84C27LT1G	MMBZ5270BLT1G	MMSZ5245CT1G	MMSZ5270BT1G
BZX84C30LT1G	MMBZ5270BLT1G	MMSZ5245ET1G	MMSZ5270BT1G
BZX84C30LT1G	MMBZ5270BLT1G	MMSZ5246BT1G	MMSZ5270BT1G
BZX84C33LT1G	MMBZ5270BLT1G	MMSZ5246ET1G	MMSZ5270BT1G
BZX84C33LT3G	MMBZ5270BLT1G	MMSZ5247BT1G	MMSZ5270BT1G
BZX84C36LT1G	MMBZ5270BLT1G	MMSZ5247BT3G	MMSZ5270BT1G
BZX84C39LT1G	MMBZ5270BLT1G	MMSZ5248BT1G	MMSZ5270BT1G
BZX84C43LT1G	MMBZ5270BLT1G	MMSZ5248BT3G	MMSZ5270BT1G
BZX84C47LT1G	MMBZ5270BLT1G	MMSZ5248CT1G	MMSZ5270BT1G
BZX84C51LT1G	MMBZ5270BLT1G	MMSZ5249BT1G	MMSZ5270BT1G
BZX84C56LT1G	MMBZ5270BLT1G	MMSZ5250BT1G	MMSZ5270BT1G
BZX84C62LT1G	MMBZ5270BLT1G	MMSZ5250CT1G	MMSZ5270BT1G
BZX84C68LT1G	MMBZ5270BLT1G	MMSZ5251BT1G	MMSZ5270BT1G
BZX84C75LT1G	MMBZ5270BLT1G	MMSZ5252BT1G	MMSZ5270BT1G
MMBZ15VDLT1G	MMBZ5270BLT1G	MMSZ5252CT1G	MMSZ5270BT1G



Part Number	Qualification Vehicle	Part Number	Qualification Vehicle
MMBZ15VDLT3G	MMBZ5270BLT1G	MMSZ5252ET1G	MMSZ5270BT1G
MMBZ27VCLT1G	MMBZ5270BLT1G	MMSZ5253BT1G	MMSZ5270BT1G
MMBZ5240BLT1G	MMBZ5270BLT1G	MMSZ5254BT1G	MMSZ5270BT1G
MMBZ5241BLT1G	MMBZ5270BLT1G	MMSZ5254ET1G	MMSZ5270BT1G
MMBZ5242BLT1G	MMBZ5270BLT1G	MMSZ5255BT1G	MMSZ5270BT1G
MMBZ5242BLT3G	MMBZ5270BLT1G	MMSZ5255ET1G	MMSZ5270BT1G
MMBZ5242ELT1G	MMBZ5270BLT1G	MMSZ5256BT1G	MMSZ5270BT1G
MMBZ5243BLT1G	MMBZ5270BLT1G	MMSZ5256CT1G	MMSZ5270BT1G
MMBZ5244BLT1G	MMBZ5270BLT1G	MMSZ5256ET1G	MMSZ5270BT1G
MMBZ5245BLT1G	MMBZ5270BLT1G	MMSZ5257BT1G	MMSZ5270BT1G
MMBZ5245ELT1G	MMBZ5270BLT1G	MMSZ5257ET1G	MMSZ5270BT1G
MMBZ5246BLT1G	MMBZ5270BLT1G	MMSZ5258BT1G	MMSZ5270BT1G
MMBZ5247BLT1G	MMBZ5270BLT1G	MMSZ5258BT3G	MMSZ5270BT1G
MMBZ5248BLT1G	MMBZ5270BLT1G	MMSZ5258CT1G	MMSZ5270BT1G
MMBZ5248BLT3G	MMBZ5270BLT1G	MMSZ5258ET1G	MMSZ5270BT1G
MMBZ5248ELT1G	MMBZ5270BLT1G	MMSZ5259BT1G	MMSZ5270BT1G
MMBZ5249BLT1G	MMBZ5270BLT1G	MMSZ5260BT1G	MMSZ5270BT1G
MMBZ5250BLT1G	MMBZ5270BLT1G	MMSZ5261BT1G	MMSZ5270BT1G
MMBZ5251BLT1G	MMBZ5270BLT1G	MMSZ5262BT1G	MMSZ5270BT1G
MMBZ5252BLT1G	MMBZ5270BLT1G	MMSZ5263BT1G	MMSZ5270BT1G
MMBZ5253BLT1G	MMBZ5270BLT1G	MMSZ5264BT1G	MMSZ5270BT1G
MMBZ5254BLT1G	MMBZ5270BLT1G	MMSZ5265BT1G	MMSZ5270BT1G
MMBZ5255BLT1G	MMBZ5270BLT1G	MMSZ5266BT1G	MMSZ5270BT1G
MMBZ5256ELT1G	MMBZ5270BLT1G	MMSZ5267BT1G	MMSZ5270BT1G
MMBZ5257BLT1G	MMBZ5270BLT1G	MMSZ5268BT1G	MMSZ5270BT1G
MMBZ5258BLT1G	MMBZ5270BLT1G	MMSZ5270BT1G	MMSZ5270BT1G
MMBZ5259BLT1G	MMBZ5270BLT1G	MMSZ56T1G	MMSZ5270BT1G
MMBZ5260BLT1G	MMBZ5270BLT1G	NUP2105LT1G	NUP2105LT1G
MMBZ5256BLT1G	MMBZ5270BLT1G		