



Title of Change:	Transfer of wafer fabrication operations for ON Semiconductor Zener products to ON Niigata, Japan. Change to AlSiCu top metal and Henkel mold compound.	
Proposed Changed Material First Ship Date:	30 August 2019	
Current Material Last Order Date:	7 July 2019 Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.	
Current Material Last Delivery Date:	7 July 2019 The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory.	
Product Category:	Active components – Discrete components	
Contact information:	Contact your local ON Semiconductor Sales Office or <Hiroshi.Koizumi@onsemi.com>	
Samples:	Contact your local ON Semiconductor Sales Office to place sample order or <PCN.samples@onsemi.com> Sample requests are to be submitted no later than 45 days after publication of this change notification.	
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or < Nicky.Siu@onsemi.com>.	
Type of Notification:	This is an Initial Product/Process Change Notification (IPCN) sent to customers. IPCNs are issued at least 30 days prior to the issuance of the Final Change Notice (FPCN). An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 12 months prior to implementation of the change. In case of questions, contact <PCN.Support@onsemi.com>.	
Change Category	Type of Change	
Process – Wafer Production	New / change of metallization (specifically chip frontside)" Move of all or part of wafer fab to a different location/site/subcontractor (qualification of an additional manufacturing site)	
Process – Assembly	Change of mold compound	
Description and Purpose:		
This is the Initial Notification by ON Semiconductor notifying customers of its plan to transfer fab site from ISMF(Malaysia) to Niigata(Japan) as qualified wafer source for NZener, and change to 2um AlSiCu top metal and Henkel mold compound.		
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 ISO/TS16949 and ISO-9001 certified.		
Material to be changed	Before Change Description	After Change Description
Wafer fab	ON Semiconductor ISMF FAB, Malaysia	ON Semiconductor Niigata, Japan
Top metal	AlSi 2um	AlSiCu 2um
Mold Compound	Hitachi GE200F	Henkel GR640 HV
There is no product marking change as a result of this change		



Reason / Motivation for Change:	<ul style="list-style-type: none"> - Change benefits for customer: <ul style="list-style-type: none"> • unconstraint capacity - Risk for late release for customer <ul style="list-style-type: none"> • No ISMF supply after Proposed Changed Material First Ship Date • Limited ability to support bridge build availability. 	
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:	<p>The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by ON Semiconductor in relation to the PCN, associated risks are verified and excluded.</p> <p>No anticipated impacts.</p>	
Sites Affected:	ON Semiconductor Sites: ON ISMF, Malaysia ON Leshan, China ON Niigata, Japan	External Foundry/Subcon Sites: None
Marking of Parts/ Traceability of Change:	Affected devices from ON Semiconductor with date code First Ship Date and greater is sourced from ON Semiconductor Niigata, Japan.	

Reliability Data Summary:

QV DEVICE NAME SZNUP3105LT3G

PACKAGE: SOT23

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj = 150°C, Bias=100% of rated Vrms for Q101 Rev D	2016hrs
HTSL	JESD22-A103	Ta= 150°C	2016hrs
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	30000 cyc
TC	JESD22-A104	Temp = -55°C to +150°C	1000 cycles
HAST	JESD22-A110	Temp = 130°C, 85% RH, ~ 18.8 psig, bias = 80% of rated V	192hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs
PC	J-STD-020 JESD-A113	MSL 1 @260°C	
RSH	JESD22- B106	Ta = 265C, 10 sec	

QV DEVICE NAME SZMMBZ5270BLT1G

PACKAGE: SOT23

Test	Specification	Condition	Interval
SSOP (SSOL)	AEC-Q101-REV-D1 (JESD22-A108)	IZ max, Ta to rated Tj=150°C	2016hrs
HTSL	JESD22-A103	Ta= 150°C	2016hrs
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	30000 cyc
TC	JESD22-A104	Temp = -55°C to +150°C	1000 cycles
HAST	JESD22-A110	Temp = 130°C, 85% RH, ~ 18.8 psig, bias = 80% of rated V	192hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs
PC	J-STD-020 JESD-A113	MSL 1 @260°C	
RSH	JESD22- B106	Ta = 265C, 10 sec	



QV DEVICE NAME SZMMSZ5272BT1G

PACKAGE: SOD123

Test	Specification	Condition	Interval
SSOP (SSOL)	AEC-Q101-REV-D1 (JESD22-A108)	IZ max, Ta to rated Tj=150°C	2016hrs
HTSL	JESD22-A103	Ta= 150°C	2016hrs
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	30000 cyc
TC	JESD22-A104	Temp = -55°C to +150°C	1000 cycles
HAST	JESD22-A110	Temp = 130°C, 85% RH, ~ 18.8 psig, bias = 80% of rated V	192hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs
PC	J-STD-020 JESD-A113	MSL 1 @260°C	
RSH	JESD22- B106	Ta = 265C, 10 sec	

Electrical Characteristic Summary:

Electrical characteristics will be performed and updated per FPCN.

List of Affected Parts:

Current Part Number	New Part Number	Qualification Vehicle
SZNUP3105LT3G	NA	SZNUP3105LT3G
SZNUP3105LT1G	NA	SZNUP3105LT3G
SZNUP2105LT3G	NA	SZNUP3105LT3G
SZNUP2105LT1G	NA	SZNUP3105LT3G
SZNUP1105LT1G	NA	SZNUP3105LT3G
SZMMBZ39VCLT3G	NA	SZNUP3105LT3G
SZMMBZ39VCLT1G	NA	SZNUP3105LT3G
SZMMBZ27VCLT3G	NA	SZNUP3105LT3G
SZMMBZ27VCLT1G	NA	SZNUP3105LT3G
SZMMBZ15VCLT3G	NA	SZNUP3105LT3G
SZMMBZ15VCLT1G	NA	SZNUP3105LT3G
S2ZMMBZ15VCLT1G	NA	SZNUP3105LT3G
SZMMSZ56T1G	NA	SZMMSZ5272BT1G
SZMMSZ5272BT3G	NA	SZMMSZ5272BT1G
SZMMSZ5272BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5270BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5268BT1G	NA	SZMMSZ5272BT1G



SZMMSZ5267BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5266BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5265BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5264BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5263BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5262BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5261BT3G	NA	SZMMSZ5272BT1G
SZMMSZ5261BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5260BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5259BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5258ET1G	NA	SZMMSZ5272BT1G
SZMMSZ5258CT1G	NA	SZMMSZ5272BT1G
SZMMSZ5258BT3G	NA	SZMMSZ5272BT1G
SZMMSZ5258BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5257ET1G	NA	SZMMSZ5272BT1G
SZMMSZ5257BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5256ET1G	NA	SZMMSZ5272BT1G
SZMMSZ5256BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5255BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5254BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5253ET1G	NA	SZMMSZ5272BT1G
SZMMSZ5253BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5252ET3G	NA	SZMMSZ5272BT1G
SZMMSZ5252ET1G	NA	SZMMSZ5272BT1G
SZMMSZ5252BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5251ET1G	NA	SZMMSZ5272BT1G
SZMMSZ5251BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5248ET1G	NA	SZMMSZ5272BT1G
SZMMSZ5247BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5246ET1G	NA	SZMMSZ5272BT1G
SZMMSZ5246BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5245ET1G	NA	SZMMSZ5272BT1G
SZMMSZ5245BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5244BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5242BT3G	NA	SZMMSZ5272BT1G
SZMMSZ5242BT1G	NA	SZMMSZ5272BT1G



SZMMSZ5241BT1G	NA	SZMMSZ5272BT1G
SZMMSZ5240BT1G	NA	SZMMSZ5272BT1G
SZMMSZ47T1G	NA	SZMMSZ5272BT1G
SZMMSZ4717T1G	NA	SZMMSZ5272BT1G
SZMMSZ4715T1G	NA	SZMMSZ5272BT1G
SZMMSZ4713T1G	NA	SZMMSZ5272BT1G
SZMMSZ4711T1G	NA	SZMMSZ5272BT1G
SZMMSZ4709T1G	NA	SZMMSZ5272BT1G
SZMMSZ4708T1G	NA	SZMMSZ5272BT1G
SZMMSZ4707T1G	NA	SZMMSZ5272BT1G
SZMMSZ4705T1G	NA	SZMMSZ5272BT1G
SZMMSZ4704T3G	NA	SZMMSZ5272BT1G
SZMMSZ4704T1G	NA	SZMMSZ5272BT1G
SZMMSZ4703T1G	NA	SZMMSZ5272BT1G
SZMMSZ4702T1G	NA	SZMMSZ5272BT1G
SZMMSZ4701T1G	NA	SZMMSZ5272BT1G
SZMMSZ4700T1G	NA	SZMMSZ5272BT1G
SZMMSZ4699T1G	NA	SZMMSZ5272BT1G
SZMMSZ4697T1G	NA	SZMMSZ5272BT1G
SZMMSZ43T1G	NA	SZMMSZ5272BT1G
SZMMSZ39T1G	NA	SZMMSZ5272BT1G
SZMMSZ36T1G	NA	SZMMSZ5272BT1G
SZMMSZ33T3G	NA	SZMMSZ5272BT1G
SZMMSZ33T1G	NA	SZMMSZ5272BT1G
SZMMSZ33ET3G	NA	SZMMSZ5272BT1G
SZMMSZ33ET1G	NA	SZMMSZ5272BT1G
SZMMSZ30T1G	NA	SZMMSZ5272BT1G
SZMMSZ27T3G	NA	SZMMSZ5272BT1G
SZMMSZ27T1G	NA	SZMMSZ5272BT1G
SZMMSZ27ET1G	NA	SZMMSZ5272BT1G
SZMMSZ24T3G	NA	SZMMSZ5272BT1G
SZMMSZ24T1G	NA	SZMMSZ5272BT1G
SZMMSZ22T1G	NA	SZMMSZ5272BT1G
SZMMSZ20T1G	NA	SZMMSZ5272BT1G
SZMMSZ18T1G	NA	SZMMSZ5272BT1G
SZMMSZ18ET1G	NA	SZMMSZ5272BT1G



SZMMSZ16T1G	NA	SZMMSZ5272BT1G
SZMMSZ15T1G	NA	SZMMSZ5272BT1G
SZMMSZ15ET1G	NA	SZMMSZ5272BT1G
SZMMSZ13T1G	NA	SZMMSZ5272BT1G
SZMMSZ13ET1G	NA	SZMMSZ5272BT1G
SZMMSZ12T3G	NA	SZMMSZ5272BT1G
SZMMSZ12T1G	NA	SZMMSZ5272BT1G
SZMMSZ11T1G	NA	SZMMSZ5272BT1G
SZMMSZ10T3G	NA	SZMMSZ5272BT1G
SZMMSZ10T1G	NA	SZMMSZ5272BT1G
SMSZ1600-35T3DSG	NA	SZMMSZ5272BT1G
SMSZ1600-31T3G	NA	SZMMSZ5272BT1G
SZMMBZ5270BLT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5268BLT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5263BLT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5261BLT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5260BLT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5258BLT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5257BLT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5256ELT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5252BLT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5250BLT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5248ELT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5247BLT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5246ELT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5246BLT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5245ELT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5245BLT3G	NA	SZMMBZ5270BLT1G
SZMMBZ5245BLT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5244BLT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5243BLT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5242ELT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5242BLT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5240ELT1G	NA	SZMMBZ5270BLT1G
SZMMBZ5240BLT1G	NA	SZMMBZ5270BLT1G
SZBZX84C75LT1G	NA	SZMMBZ5270BLT1G



SZBZX84C68LT1G	NA	SZMMBZ5270BLT1G
SZBZX84C68ET1G	NA	SZMMBZ5270BLT1G
SZBZX84C62LT1G	NA	SZMMBZ5270BLT1G
SZBZX84C47LT3G	NA	SZMMBZ5270BLT1G
SZBZX84C47LT1G	NA	SZMMBZ5270BLT1G
SZBZX84C43LT1G	NA	SZMMBZ5270BLT1G
SZBZX84C36ET1G	NA	SZMMBZ5270BLT1G
SZBZX84C33LT3G	NA	SZMMBZ5270BLT1G
SZBZX84C33LT1G	NA	SZMMBZ5270BLT1G
SZBZX84C30ET1G	NA	SZMMBZ5270BLT1G
SZBZX84C27ET3G	NA	SZMMBZ5270BLT1G
SZBZX84C27ET1G	NA	SZMMBZ5270BLT1G
SZBZX84C24LT1G	NA	SZMMBZ5270BLT1G
SZBZX84C22LT3G	NA	SZMMBZ5270BLT1G
SZBZX84C22LT1G	NA	SZMMBZ5270BLT1G
SZBZX84C22ET1G	NA	SZMMBZ5270BLT1G
SZBZX84C20LT1G	NA	SZMMBZ5270BLT1G
SZBZX84C20ET1G	NA	SZMMBZ5270BLT1G
SZBZX84C18ET1G	NA	SZMMBZ5270BLT1G
SZBZX84C16LT3G	NA	SZMMBZ5270BLT1G
SZBZX84C16LT1G	NA	SZMMBZ5270BLT1G
SZBZX84C16ET3G	NA	SZMMBZ5270BLT1G
SZBZX84C16ET1G	NA	SZMMBZ5270BLT1G
SZBZX84C15XET3G	NA	SZMMBZ5270BLT1G
SZBZX84C15XET1G	NA	SZMMBZ5270BLT1G
SZBZX84C15LT3G	NA	SZMMBZ5270BLT1G
SZBZX84C15LT1G	NA	SZMMBZ5270BLT1G
SZBZX84C15ET3G	NA	SZMMBZ5270BLT1G
SZBZX84C15ET1G	NA	SZMMBZ5270BLT1G
SZBZX84C13ET1G	NA	SZMMBZ5270BLT1G
SZBZX84C12LT3G	NA	SZMMBZ5270BLT1G
SZBZX84C12LT1G	NA	SZMMBZ5270BLT1G
SZBZX84C12ET3G	NA	SZMMBZ5270BLT1G
SZBZX84C12ET1G	NA	SZMMBZ5270BLT1G
SZBZX84C11ET1G	NA	SZMMBZ5270BLT1G
SZBZX84C10LT1G	NA	SZMMBZ5270BLT1G



SZBZX84C10ET1G	NA	SZMMBZ5270BLT1G
SZBZX84B27LT1G	NA	SZMMBZ5270BLT1G
SZBZX84B24LT1G	NA	SZMMBZ5270BLT1G
SZBZX84B22LT1G	NA	SZMMBZ5270BLT1G
SZBZX84B18LT1G	NA	SZMMBZ5270BLT1G
SZBZX84B16LT1G	NA	SZMMBZ5270BLT1G
SZBZX84B15LT1G	NA	SZMMBZ5270BLT1G
SZBZX84B12LT1G	NA	SZMMBZ5270BLT1G
SZBZX84B10LT1G	NA	SZMMBZ5270BLT1G
SMBZ1475LT3G	NA	SZMMBZ5270BLT1G
SMBZ1449-20LT3G	NA	SZMMBZ5270BLT1G
S1ZMMBZ5245BLT1G	NA	SZMMBZ5270BLT1G

NOTE:

Please be informed that there are Customer Specific parts impacted by this notice, thus MPN & CPN info will not be reflected in the parts list of this Generic document. Instead please click the link to the addendum copy provided in the email notification to see full list of affected products specific to your company.