

Title of Change:	Transfer of Assembly and Test operations of SMA and SMB products to subcontractor Good- Ark China.	
Proposed Changed Material First Ship Date:	02 Nov 2023 or earlier if approved by customer	
Current Material Last Order Date:	N/A Orders received after the Current Material Last Order Date expiration are to be considered orders for new changed material as described in this PCN. Orders for current (unchange material after this date will be per mutual agreement and current material invento availability.	
Current Material Last Delivery Date:	N/A 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 onsemi Sales Office or Hoang.Nguyen@onsemi.com	
PCN Samples Contact:	Contact your local onsemi Sales Office to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
Sample Availability Date:	01 Dec 2022	
PPAP Availability Date:	01 Dec 2022	
Additional Reliability Data:	Contact your local onsemi Sales Office or MohdAzizi.Azman@onsemi.com	
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com.	
Change Category		
Category	Type of Change	
Test Flow	Move of all or part of electrical wafer test and/or final test to a different location/site/subcontractor	
Equipment	Production from a new equipment/tool which uses a different basic technology or which due to its unique form or function can be expected to influence the integrity of the final product, Change in final test equipment type that uses a different technology	
Process - Assembly	Move of all or part of assembly to a different location/site/subcontractor., Change of mold compound, Die attach material,	

Change in leadframe dimensions



Final Product/Process Change Notification Document # :FPCN23483ZE Issue Date: 20 Dec 2022

Description and Purpose:

This Final Product Change Notification (FPCN) is to announce the planned qualification to transfer Assembly and Test of SMA and SMB products from onsemi Vietnam to subcontractor GoodArk China.

The suffix '-GA01' will be added to the end of the part number.

The products in SMA and SMB package are currently being assembled and tested at onsemi Vietnam.

Upon expiration of this FPCN, these products can be processed at Good-Ark location under new part numbers using its Bill of Materials

	From	То
Assembly Site	onsemi Vietnam	Good-Ark China
Leadframe	copper leadframe thickness: SMA: 10mils SMB: 10mils	copper leadframe thickness: SMA: 8mils SMB: 8mils
Clip	Cu Clip thickness: SMA: 12mils SMB: 12mils	Cu Clip thickness: SMA: 6mils SMB: 8mils
Solder Paste	SN5AG2.5PB92.5 Indium SMQ75	SN5AG2.5PB92.5 Indium 9.15
Mold compound	NITTO GE-200HH	HYSOL GR530

	From	То
Final Test Site	onsemi Vietnam	Good-Ark China

Reason / Motivation for Change:	Supply disruption		
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:	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 onsemi in relation to the PCN, associated risks are verified and excluded. No anticipated impacts.		
Sites Affected:			
onsemi Sites		External Foundry/Subcon Sites	
None		Good-Ark, China	

Marking of Parts/ Traceability of Change:	Changed material can be identified by assembly plant code.
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Reliability Data Summary:

QV DEVICE NAME : NRVTSA4100ET3G RMS: 84101 PACKAGE: SMA

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=90°C, 100% max rated V	1008 hrs	0/231
HTSL	JESD22-A103	Ta=150°C	1008 hrs	0/231
LTSL	JESD22-A119	Ta=-40°C	168 hrs	0/75
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= -55°C to +150°C, mounted on board	1000 сус	0/231
H3TRB	JESD22-A101	85°C, 85% RH, reverse bias	1008 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		0/924
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90
SD	JSTD002	Ta = 245C, 5 sec		0/45

QV DEVICE NAME : SURA8260T3G-VF01 RMS: 83561 PACKAGE: SMA

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 100% max rated V	1008 hrs	0/231
HTSL	JESD22-A103	Ta=150°C	1008 hrs	0/231
LTSL	JESD22-A119	Ta=-40°C	168 hrs	0/75
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= -55°C to +150°C, mounted on board	1000 cyc	0/231
H3TRB	JESD22-A101	85°C, 85% RH, reverse bias	1008 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
РС	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/924
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90
SD	JSTD002	Ta = 245C, 5 sec		0/45

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/ DEVICE NAMI /IS: 83559 ICKAGE: SMB	E : NRVUS360VBT3G			
Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 100% max rated V	1008 hrs	0/231
HTSL	JESD22-A103	Ta=150°C	1008 hrs	0/231
LTSL	JESD22-A119	Ta=-40°C	168 hrs	0/75
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 сус	0/231
TC	JESD22-A104	Ta= -55°C to +150°C, mounted on board	1000 сус	0/231
H3TRB	JESD22-A101	85°C, 85% RH, reverse bias	1008 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
РС	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/924
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90
SD	JSTD002	Ta = 245C, 5 sec		0/45

NOTE: AEC-1pager is attached.

To view attachments:

1. Download pdf copy of the PCN to your computer

- 2. Open the downloaded pdf copy of the PCN
- 3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field

4. Then click on the attached file.

Electrical Characteristics Summary:

Electrical characteristics are not impacted.

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

Current Part Number	New Part Number	Qualification Vehicle
NRVTSA3100ET3G	NRVTSA3100ET3G-GA01	NRVTSA4100ET3G
NRVTSA4100ET3G	NRVTSA4100ET3G-GA01	NRVTSA4100ET3G



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NRVTSA4100T3G	NRVTSA4100T3G-GA01	NRVTSA4100ET3G
NRVTSS3100ET3G	NRVTSS3100ET3G-GA01	NRVTSA4100ET3G
NRVTSS5100ET3G	NRVTSS5100ET3G-GA01	NRVTSA4100ET3G
NRVUA110VT3G	NRVUA110VT3G-GA01	SURA8260T3G-VF01
NRVUA210VT3G	NRVUA210VT3G-GA01	SURA8260T3G-VF01
SURA8205T3G-VF01	SURA8205T3G-GA01	SURA8260T3G-VF01
SURA8210T3G-IR02	NRVUA210VT3G-GA01	SURA8260T3G-VF01
NRVUA120VT3G	NRVUA120VT3G-GA01	SURA8260T3G-VF01
NRVUA220VT3G	NRVUA220VT3G-GA01	SURA8260T3G-VF01
SURA8215T3G-VF01	SURA8215T3G-GA01	SURA8260T3G-VF01
NRVUA140VT3G	NRVUA140VT3G-GA01	SURA8260T3G-VF01
SURA8130T3G-VF01	SURA8130T3G-GA01	SURA8260T3G-VF01
SURA8240T3G-VF01	SURA8240T3G-GA01	SURA8260T3G-VF01
NRVUA160VT3G	NRVUA160VT3G-GA01	SURA8260T3G-VF01
SURA8260T3G-VF01	SURA8260T3G-GA01	SURA8260T3G-VF01
NRVUS110VT3G	NRVUS110VT3G-GA01	NRVUS360VBT3G
NRVUS120VT3G	NRVUS120VT3G-GA01	NRVUS360VBT3G
NRVUS220VT3G	NRVUS220VT3G-GA01	NRVUS360VBT3G
NRVUS360VBT3G	NRVUS360VBT3G-GA01	NRVUS360VBT3G
SURS8260T3G-VF01	SURS8260T3G-GA01	NRVUS360VBT3G
NRVUS160VT3G	NRVUS160VT3G-GA01	NRVUS360VBT3G
SURHS8160T3G-IR02	SURHS8160T3G-GA01	NRVUS360VBT3G
NRVUHS160VT3G	NRVUHS160VT3G-GA01	NRVUS360VBT3G
NRVUS240VT3G	NRVUS240VT3G-GA01	NRVUS360VBT3G
NRVUS230VT3G-IR02	NRVUS230VT3G-GA01	NRVUS360VBT3G
SURS8220T3G-IR02	NRVUS220VT3G-GA01	NRVUS360VBT3G
SURS8120T3G-IR02	NRVUS120VT3G-GA01	NRVUS360VBT3G
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