



Final Product/Process Change Notification

Document #:FPCN23483XA

Issue Date:17 Dec 2021

Title of Change:	SMA, SMB, and SMC Subcontractor Assembly Site Qualification
Proposed First Ship date:	24 Mar 2022 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Hoang.Nguyen@onsemi.com
PCN Samples Contact:	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.
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. FPCNs are issued 90 days prior to implementation of the change. onsemi 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
Marking of Parts/ Traceability of Change:	Products from Good-ark will be marked with site code "g" prior to date code
Change Category:	Test Change, Assembly Change
Change Sub-Category(s):	Manufacturing Site Addition

Sites Affected:

onsemi Sites

None

External Foundry/Subcon Sites

Good-Ark, China

Description and Purpose:

This Final Product Change Notification (FPCN) is to announce the planned qualification of Good-ark, China as additional Assembly and Test sites for products in SMA (Schottky), SMB (Ultrafast) and SMC (Schottky) packages.

The products in SMA, SMB & SMC packages are currently being assembled and tested at onsemi Vietnam and onsemi Seremban, Malaysia. Upon expiration of this FPCN, these products can be processed at Good-Ark location using its Bill of Materials.

	Before Change Description	After Change Description	
Assembly/Test Sites	onsemi Malaysia / onsemi Vietnam	onsemi Malaysia / onsemi Vietnam	Good-Ark China
Mold Compound	MC NITTO GE-200HH	MC NITTO GE-200HH	HYSOL GR530 Sumikon EME-E220 Type H

Assembly Plant Code Marking	From (ON Vietnam, ON Malaysia)	To (Good-Ark China)
SMA	VN, R	g
SMB	V, R	g
SMC	VN, R	g



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Reliability Data Summary:

QV DEVICE NAME: MURS360BT3G

RMS: 79090

PACKAGE: SMB

Test	Specification	Condition	Interval	Result
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 max, Ton = Toff = 2min	15000 cyc	0/231
TC	JESD22-A104	Ta = -55°C to +150°C	1000 cyc	0/231
UHAST	JESD22-A118	85°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
H3TRB	JESD22-A101	85°C, 85% RH, bias = 80% of rated V or up to maximum 100V	1008 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	-	0/924
RSH	JESD22- B106	Ta = 265°C, 10 sec	-	0/90
SD	JSTD002	Ta = 245°C, 10 sec	-	0/45

QV DEVICE NAME: MBRA340T3G, MBRS410LT3G

RMS: 79087, 79092

PACKAGE: SMA, SMC

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta=90°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 max, Ton = Toff = 2min	15000 cyc	0/231
TC	JESD22-A104	Ta = -55°C to +150°C	1000 cyc	0/231
UHAST	JESD22-A118	85°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
H3TRB	JESD22-A101	85°C, 85% RH, bias = 80% of rated V or up to maximum 100V	1008 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	-	0/924
RSH	JESD22- B106	Ta = 265°C, 10 sec	-	0/90
SD	JSTD002	Ta = 245°C, 10 sec	-	0/45



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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](#).

Part Number	Qualification Vehicle
MBRS410LT3G	MBRS410LT3G
MURS360BT3G	MURS360BT3G
MBRA340T3G	MBRA340T3G
MBRA2H100T3G	MBRA340T3G
MBRA210LT3G	MBRA340T3G

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MBRS410LT3G		MBRS410LT3G	NA	
MBRA340T3G		MBRA340T3G	NA	
MBRA2H100T3G		MBRA340T3G	NA	
MBRA210LT3G		MBRA340T3G	NA	
MURS360BT3G		MURS360BT3G	NA	