

Initial Product/Process Change Notification

Document #: IPCN25638X

Issue Date:16 Aug 2023

Title of Change:	Goodark – SMA, SMB and SMC product transfer to a new test and assembly site location	
Proposed First Ship date:	01 May 2024 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or NurulAqilah.AbuHurairah@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.	
Type of Notification:	This is an Initial Product/Process Change Notification (IPCN) sent to customers. 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 90 days prior to implementation of the change. In case of questions, contact < PCN.Support@onsemi.com >	
Marking of Parts/ Traceability of Change:	No change on marking	
Change Category:	Test Change, Assembly Change	
Change Sub-Category(s):	Manufacturing Site Transfer	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
None	Good-Ark, China	
Description and Purpose:		
This Initial Notification announces to customers the transfer of Goodark – SMA, SMB, and SMC products to a new test and assembly site location.		
There is no change in the material for assembly and test. The Subcon company remains the same; only the assembly and test site location is being changed. All machines will also be transferred to the new site.		
After the PCN is expired or approved, production will only run at the new site, and production will stop in the old plant.		
	From	To
Assembly and Test Site	Goodark, No.31, Tongxi Road, Tongan Economic Development Zone, 215153, China.	Goodark, No.200, Huajin Road, Tongan Economic Development Zone, 215153, China.



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Qualification Plan:

QV DEVICE NAME: MBRA340T3G

PACKAGE: SMA

Test	Specification	Condition	Interval
High Temp Reverse Bias	JESD22-A108	Ta=90°C, 100 % max rated Vcc	1008 hours
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hours
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C	
High Temperature High Humidity Reverse Bias	JESD22-A101	85°C, 85% RH, reverse bias	1008 hours
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C	1000 cycles
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours
Intermittent Operating Life	MIL STD750, M 1037 AEC Q101	Ta= 25°C, Tj= 100°C max, 2min on/off	15000 cycles
Resistance to Solder Heat	JESD22- B106	Ta = 268°C, 10 sec Required for through hole devices only	
Solderability	JSTD002	Ta = 245°C, 5 sec	

QV DEVICE NAME: MURA160T3G

PACKAGE: SMA

Test	Specification	Condition	Interval
High Temp Reverse Bias	JESD22-A108	Ta=90°C, 100 % max rated Vcc	1008 hours
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hours
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C	
High Temperature High Humidity Reverse Bias	JESD22-A101	85°C, 85% RH, reverse bias	1008 hours
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C	1000 cycles
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours
Intermittent Operating Life	MIL STD750, M 1037 AEC Q101	Ta= 25°C, Tj= 100°C max, 2min on/off	15000 cycles
Resistance to Solder Heat	JESD22- B106	Ta = 268°C, 10 sec Required for through hole devices only	
Solderability	JSTD002	Ta = 245°C, 5 sec	

QV DEVICE NAME: MBRS410LT3G

PACKAGE: SMC

Test	Specification	Condition	Interval
High Temp Reverse Bias	JESD22-A108	Ta=90°C, 100 % max rated Vcc	1008 hours
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hours
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C	
High Temperature High Humidity Reverse Bias	JESD22-A101	85°C, 85% RH, reverse bias	1008 hours
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C	1000 cycles
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours
Intermittent Operating Life	MIL STD750, M 1037 AEC Q101	Ta= 25°C, Tj= 100°C max, 2min on/off	15000 cycles
Resistance to Solder Heat	JESD22- B106	Ta = 268°C, 10 sec Required for through hole devices only	
Solderability	JSTD002	Ta = 245°C, 5 sec	

QV DEVICE NAME: MBRS4201T3G

PACKAGE: SMC

Test	Specification	Condition	Interval
High Temp Reverse Bias	JESD22-A108	Ta=90°C, 100 % max rated Vcc	1008 hours
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hours
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C	
High Temperature High Humidity Reverse Bias	JESD22-A101	85°C, 85% RH, reverse bias	1008 hours
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C	1000 cycles
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours
Intermittent Operating Life	MIL STD750, M 1037 AEC Q101	Ta= 25°C, Tj= 100°C max, 2min on/off	15000 cycles
Resistance to Solder Heat	JESD22- B106	Ta = 268°C, 10 sec Required for through hole devices only	
Solderability	JSTD002	Ta = 245°C, 5 sec	

QV DEVICE NAME: MURS360BT3G

PACKAGE: SMB

Test	Specification	Condition	Interval
High Temp Reverse Bias	JESD22-A108	Ta=90°C, 100 % max rated Vcc	1008 hours
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hours
Steady State Operation Life	Mil-Std-750 M1038	Ta= 25°C, Tj = 150°C max	1008 hours
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C	
High Temperature High Humidity Reverse Bias	JESD22-A101	85°C, 85% RH, reverse bias	1008 hours
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C	1000 cycles
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours
Intermittent Operating Life	MIL STD750, M 1037 AEC Q101	Ta= 25°C, Tj= 100°C max, 2min on/off	15000 cycles
Resistance to Solder Heat	JESD22- B106	Ta = 268°C, 10 sec Required for through hole devices only	
Solderability	JSTD002	Ta = 245°C, 5 sec	

Estimated date for qualification completion: 31 December 2023

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
MURS260T3G	MURS360BT3G
MURHS160T3G	MURS360BT3G
MURS140T3G	MURS360BT3G
MURS160T3G	MURS360BT3G
MURS230T3G	MURS360BT3G



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MURS240T3G	MURS360BT3G
MURS105T3G	MURS360BT3G
MURS110T3G	MURS360BT3G
MURS115T3G	MURS360BT3G
MURS120T3G	MURS360BT3G
MURS210T3G	MURS360BT3G
MURS220T3G	MURS360BT3G
MBRS3200T3G	MURS360BT3G
MBRS130T3G	MURS360BT3G
MBRS120T3G	MURS360BT3G
MBRS230LT3G	MURS360BT3G
MBRS130LT3G	MURS360BT3G
SS26T3G	MURS360BT3G
SS24T3G	MURS360BT3G
MBRS260T3G	MURS360BT3G
MBRS1540T3G	MURS360BT3G
MBRS140T3G	MURS360BT3G
MBRS410LT3G	MBRS410LT3G, MBRS4201T3G
MBRA2H100T3G	MBRA340T3G, MURA160T3G
MBRA340T3G	MBRA340T3G, MURA160T3G
MBRA210LT3G	MBRA340T3G, MURA160T3G
MURA220T3G	MBRA340T3G, MURA160T3G
MURA215T3G	MBRA340T3G, MURA160T3G
MURA210T3G	MBRA340T3G, MURA160T3G
MURA205T3G	MBRA340T3G, MURA160T3G
MURA120T3G	MBRA340T3G, MURA160T3G
MBRS340T3G	MBRS410LT3G, MBRS4201T3G
MBRS330T3G	MBRS410LT3G, MBRS4201T3G
MBRS320T3G	MBRS410LT3G, MBRS4201T3G
MBRS540T3G	MBRS410LT3G, MBRS4201T3G
MBRS3201T3G	MBRS410LT3G, MBRS4201T3G
MBRS3100T3G	MBRS410LT3G, MBRS4201T3G
MBRS4201T3G	MBRS410LT3G, MBRS4201T3G
SS16T3G	MBRA340T3G, MURA160T3G



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MBRA140T3G	MBRA340T3G, MURA160T3G
MBRA1H100T3G	MBRA340T3G, MURA160T3G
MBRA320T3G	MBRA340T3G, MURA160T3G
MBRA160T3G	MBRA340T3G, MURA160T3G
MBRA130LT3G	MBRA340T3G, MURA160T3G
MBRA120ET3G	MBRA340T3G, MURA160T3G
SS22T3G	MURS360BT3G
MBRS240LT3G	MURS360BT3G
MBRS2040LT3G	MURS360BT3G
MBRS360BT3G	MURS360BT3G
MBRS1100T3G	MURS360BT3G
MBRS190T3G	MURS360BT3G
MBRS2H100T3G	MURS360BT3G
MURS360BT3G	MURS360BT3G
MURA115T3G	MBRA340T3G, MURA160T3G
MURA110T3G	MBRA340T3G, MURA160T3G
MURA105T3G	MBRA340T3G, MURA160T3G
MURA260T3G	MBRA340T3G, MURA160T3G
MURA230T3G	MBRA340T3G, MURA160T3G
MURA160T3G	MBRA340T3G, MURA160T3G
MURA140T3G	MBRA340T3G, MURA160T3G
MURA130T3G	MBRA340T3G, MURA160T3G
MURA240T3G	MBRA340T3G, MURA160T3G
MBRS360T3G	MBRS410LT3G, MBRS4201T3G

PCN Product List Addendum for:

Customer Contact Name: Drop box Digi-Key

Customer Contact Email: digikey.supplierinfo@digikey.com

Appendix A: Changed Products

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DIKG: DIGI-KEY (page 1 of 2)

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MBRA1H100T3G		MBRA340T3G, MURA160T3G	NA	
MBRA160T3G		MBRA340T3G, MURA160T3G	NA	
MBRA130LT3G		MBRA340T3G, MURA160T3G	NA	
MBRA120ET3G		MBRA340T3G, MURA160T3G	NA	
MBRA140T3G		MBRA340T3G, MURA160T3G	NA	
SS16T3G		MBRA340T3G, MURA160T3G	NA	
MBRS4201T3G		MBRS410LT3G, MBRS4201T3G	NA	
MBRS3100T3G		MBRS410LT3G, MBRS4201T3G	NA	
MBRS3201T3G		MBRS410LT3G, MBRS4201T3G	NA	
MBRA320T3G		MBRA340T3G, MURA160T3G	NA	
MBRS320T3G		MBRS410LT3G, MBRS4201T3G	NA	
MBRS540T3G		MBRS410LT3G, MBRS4201T3G	NA	
MBRS340T3G		MBRS410LT3G, MBRS4201T3G	NA	
MBRS330T3G		MBRS410LT3G, MBRS4201T3G	NA	
MURA205T3G		MBRA340T3G, MURA160T3G	NA	
MURA120T3G		MBRA340T3G, MURA160T3G	NA	
MURA215T3G		MBRA340T3G, MURA160T3G	NA	
MURA210T3G		MBRA340T3G, MURA160T3G	NA	
MBRA210LT3G		MBRA340T3G, MURA160T3G	NA	
MURA220T3G		MBRA340T3G, MURA160T3G	NA	
MBRA340T3G		MBRA340T3G, MURA160T3G	NA	
MBRA2H100T3G		MBRA340T3G, MURA160T3G	NA	
MBRS140T3G		MURS360BT3G	NA	
MBRS410LT3G		MBRS410LT3G, MBRS4201T3G	NA	
MBRS1540T3G		MURS360BT3G	NA	
SS22T3G		MURS360BT3G	NA	
MBRS260T3G		MURS360BT3G	NA	
SS26T3G		MURS360BT3G	NA	
SS24T3G		MURS360BT3G	NA	

Appendix A: Changed Products

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DIKG: DIGI-KEY (page 2 of 2)

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MBRS230LT3G		MURS360BT3G	NA	
MBRS130LT3G		MURS360BT3G	NA	
MBRS120T3G		MURS360BT3G	NA	
MBRS3200T3G		MURS360BT3G	NA	
MBRS130T3G		MURS360BT3G	NA	
MBRS2040LT3G		MURS360BT3G	NA	
MBRS240LT3G		MURS360BT3G	NA	
MBRS1100T3G		MURS360BT3G	NA	
MBRS360BT3G		MURS360BT3G	NA	
MBRS2H100T3G		MURS360BT3G	NA	
MBRS190T3G		MURS360BT3G	NA	
MURS220T3G		MURS360BT3G	NA	
MURS360BT3G		MURS360BT3G	NA	
MURS120T3G		MURS360BT3G	NA	
MURS210T3G		MURS360BT3G	NA	
MURS110T3G		MURS360BT3G	NA	
MURS115T3G		MURS360BT3G	NA	
MURS105T3G		MURS360BT3G	NA	
MURS230T3G		MURS360BT3G	NA	
MURS240T3G		MURS360BT3G	NA	
MURS140T3G		MURS360BT3G	NA	
MURS160T3G		MURS360BT3G	NA	
MURA115T3G		MBRA340T3G, MURA160T3G	NA	
MURS260T3G		MURS360BT3G	NA	
MURA105T3G		MBRA340T3G, MURA160T3G	NA	
MURA110T3G		MBRA340T3G, MURA160T3G	NA	
MURA230T3G		MBRA340T3G, MURA160T3G	NA	
MURA260T3G		MBRA340T3G, MURA160T3G	NA	
MURA140T3G		MBRA340T3G, MURA160T3G	NA	
MURA160T3G		MBRA340T3G, MURA160T3G	NA	
MURA240T3G		MBRA340T3G, MURA160T3G	NA	
MURA130T3G		MBRA340T3G, MURA160T3G	NA	
MBRS360T3G		MBRS410LT3G, MBRS4201T3G	NA	