

Final Product/Process Change Notification

Document #:FPCN25638X

Issue Date:12 Apr 2024

Title of Change:	Goodark – SMA, SMB and SMC product transfer to a new test and assembly site location	
Proposed First Ship date:	19 Jul 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.	
Additional Reliability Data:	Contact your local onsemi Sales Office or Pat.Recella@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:	Changed material can be identified by date or lot code.	
Change Category:	Assembly Change, Test Change	
Change Sub-Category(s):	Manufacturing Site Transfer	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
None	Good-Ark, China	
Description and Purpose:		
This Final 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 Site	<u>Site No. 31, Goodark China</u> onsemi OSV, Vietnam	<u>Site No. 200, Goodark China</u> onsemi OSV, Vietnam
There is no product marking change as a result of this change.		

Reliability Data Summary:

QV DEVICE NAME: MBRA340T3G

RMS: V92386

PACKAGE: SMA

Test	Specification	Condition	Interval	Results
High Temperature Reverse Bias	JESD22-A108	Ta=90°C, 100 % max rated V	1008 hrs	0/231
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/924
Intermittent Operating Life	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 mins	15000 cyc	0/120
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/231
High Temperature High Humidity Reverse Bias	JESD22-A101	85°C, 85% RH, reverse bias	1008 hrs	0/231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
Resistance to Solder Heat	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only		0/90
Solderability	JSTD002	Ta = 245°C, 5 sec		0/45

QV DEVICE NAME: MURA160T3G

RMS: V92728

PACKAGE: SMA

Test	Specification	Condition	Interval	Results
High Temperature Reverse Bias	JESD22-A108	Ta=150°C, 100 % max rated V	1008 hrs	0/231
High Temperature Storage Life	JESD22-A103	Ta= 175°C	1008 hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/924
Intermittent Operating Life	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 mins	15000 cyc	0/120
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/231
High Temperature High Humidity Reverse Bias	JESD22-A101	85°C, 85% RH, reverse bias	1008 hrs	0/231
Autoclave	JESD22-A102	121°C, 100% RH, 15 psig, unbiased	96 hrs	0/231
Resistance to Solder Heat	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only		0/90
Solderability	JSTD002	Ta = 245°C, 5 sec		0/45



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QV DEVICE NAME: MURS360BT3G

RMS: V92734

PACKAGE: SMB

Test	Specification	Condition	Interval	Results
High Temperature Reverse Bias	JESD22-A108	Ta=150°C, 100 % max rated V	1008 hrs	0/231
High Temperature Storage Life	JESD22-A103	Ta= 175°C	1008 hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/924
Intermittent Operating Life	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 mins	15000 cyc	0/120
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/231
High Temperature High Humidity Reverse Bias	JESD22-A101	85°C, 85% RH, reverse bias	1008 hrs	0/231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
Resistance to Solder Heat	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only		0/90
Solderability	JSTD002	Ta = 245°C, 5 sec		0/45

QV DEVICE NAME: MBRS4201T3G

RMS: V92732

PACKAGE: SMC

Test	Specification	Condition	Interval	Results
High Temperature Reverse Bias	JESD22-A108	Ta=90°C, 100 % max rated V	1008 hrs	0/231
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/924
Intermittent Operating Life	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 mins	15000 cyc	0/120
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/231
High Temperature High Humidity Reverse Bias	JESD22-A101	85°C, 85% RH, reverse bias	1008 hrs	0/231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
Resistance to Solder Heat	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only		0/90
Solderability	JSTD002	Ta = 245°C, 5 sec		0/45

Electrical Characteristics Summary:

Electrical characteristics are not impacted.



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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
MBRS360T3G	MBRS4201T3G
MBRS340T3G	MBRS4201T3G
MBRS330T3G	MBRS4201T3G
MBRS320T3G	MBRS4201T3G
MBRS540T3G	MBRS4201T3G
MBRS3201T3G	MBRS4201T3G
MBRS3100T3G	MBRS4201T3G
MBRS4201T3G	MBRS4201T3G
MURS360BT3G	MURS360BT3G
MURS220T3G	MURS360BT3G
MURS120T3G	MURS360BT3G
MURS110T3G	MURS360BT3G
MURS105T3G	MURS360BT3G
MURS240T3G	MURS360BT3G
MURS160T3G	MURS360BT3G
MURS140T3G	MURS360BT3G
MURS260T3G	MURS360BT3G
MBRS2H100T3G	MURS360BT3G
MBRS190T3G	MURS360BT3G
MBRS1100T3G	MURS360BT3G
MBRS360BT3G	MURS360BT3G
MBRS2040LT3G	MURS360BT3G
MBRS240LT3G	MURS360BT3G
MBRS3200T3G	MURS360BT3G
MBRS130T3G	MURS360BT3G
MBRS120T3G	MURS360BT3G
MBRS230LT3G	MURS360BT3G
MBRS130LT3G	MURS360BT3G
SS26T3G	MURS360BT3G



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SS24T3G	MURS360BT3G
MBRS260T3G	MURS360BT3G
MBRS1540T3G	MURS360BT3G
MBRS140T3G	MURS360BT3G
MBRA2H100T3G	MBRA340T3G, MURA160T3G
MBRA340T3G	MBRA340T3G, MURA160T3G
MBRA210LT3G	MBRA340T3G, MURA160T3G
MURA220T3G	MBRA340T3G, MURA160T3G
MURA210T3G	MBRA340T3G, MURA160T3G
MURA205T3G	MBRA340T3G, MURA160T3G
MURA120T3G	MBRA340T3G, MURA160T3G
MURA115T3G	MBRA340T3G, MURA160T3G
MURA110T3G	MBRA340T3G, MURA160T3G
MURA105T3G	MBRA340T3G, MURA160T3G
MURA260T3G	MBRA340T3G, MURA160T3G
MURA230T3G	MBRA340T3G, MURA160T3G
MURA160T3G	MBRA340T3G, MURA160T3G
MURA140T3G	MBRA340T3G, MURA160T3G
MURA240T3G	MBRA340T3G, MURA160T3G
SS16T3G	MBRA340T3G, MURA160T3G
MBRA140T3G	MBRA340T3G, MURA160T3G
MBRA120ET3G	MBRA340T3G, MURA160T3G
MBRA130LT3G	MBRA340T3G, MURA160T3G
MBRA160T3G	MBRA340T3G, MURA160T3G
MBRA1H100T3G	MBRA340T3G, MURA160T3G

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
MBRS360T3G		MBRS4201T3G	#NONE	
MBRS330T3G		MBRS4201T3G	#NONE	
MBRS320T3G		MBRS4201T3G	#NONE	
MBRS540T3G		MBRS4201T3G	#NONE	
MURS110T3G		MURS360BT3G	#NONE	
MURS105T3G		MURS360BT3G	#NONE	
MBRS340T3G		MBRS4201T3G	#NONE	
MURS240T3G		MURS360BT3G	#NONE	
MURS140T3G		MURS360BT3G	#NONE	
MURS160T3G		MURS360BT3G	#NONE	
MURS260T3G		MURS360BT3G	#NONE	
MBRS190T3G		MURS360BT3G	#NONE	
MBRS2H100T3G		MURS360BT3G	#NONE	
MBRS360BT3G		MURS360BT3G	#NONE	
MBRS1100T3G		MURS360BT3G	#NONE	
MBRS2040LT3G		MURS360BT3G	#NONE	
MBRS3200T3G		MURS360BT3G	#NONE	
MBRS240LT3G		MURS360BT3G	#NONE	
MBRS120T3G		MURS360BT3G	#NONE	
MBRS130T3G		MURS360BT3G	#NONE	
MBRS230LT3G		MURS360BT3G	#NONE	
SS26T3G		MURS360BT3G	#NONE	
SS24T3G		MURS360BT3G	#NONE	
MBRS130LT3G		MURS360BT3G	#NONE	
MBRS1540T3G		MURS360BT3G	#NONE	
MBRS260T3G		MURS360BT3G	#NONE	
MBRA2H100T3G		MBRA340T3G, MURA160T3G	#NONE	
MBRS140T3G		MURS360BT3G	#NONE	
MBRS3201T3G		MBRS4201T3G	#NONE	
MBRA340T3G		MBRA340T3G, MURA160T3G	#NONE	
MBRS4201T3G		MBRS4201T3G	#NONE	
MBRS3100T3G		MBRS4201T3G	#NONE	
MURS220T3G		MURS360BT3G	#NONE	
MURS360BT3G		MURS360BT3G	#NONE	
MURS120T3G		MURS360BT3G	#NONE	
MURA220T3G		MBRA340T3G, MURA160T3G	#NONE	
MBRA210LT3G		MBRA340T3G, MURA160T3G	#NONE	
MURA205T3G		MBRA340T3G, MURA160T3G	#NONE	
MURA210T3G		MBRA340T3G, MURA160T3G	#NONE	
MURA120T3G		MBRA340T3G, MURA160T3G	#NONE	
MURA110T3G		MBRA340T3G, MURA160T3G	#NONE	
MURA115T3G		MBRA340T3G, MURA160T3G	#NONE	
MURA105T3G		MBRA340T3G, MURA160T3G	#NONE	
MURA260T3G		MBRA340T3G, MURA160T3G	#NONE	
MURA230T3G		MBRA340T3G, MURA160T3G	#NONE	
MURA140T3G		MBRA340T3G, MURA160T3G	#NONE	

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
MURA160T3G		MBRA340T3G, MURA160T3G	#NONE	
SS16T3G		MBRA340T3G, MURA160T3G	#NONE	
MURA240T3G		MBRA340T3G, MURA160T3G	#NONE	
MBRA140T3G		MBRA340T3G, MURA160T3G	#NONE	
MBRA120ET3G		MBRA340T3G, MURA160T3G	#NONE	
MBRA160T3G		MBRA340T3G, MURA160T3G	#NONE	
MBRA130LT3G		MBRA340T3G, MURA160T3G	#NONE	
MBRA1H100T3G		MBRA340T3G, MURA160T3G	#NONE	