



Final Product/Process Change Notification

Document #:FPCN25638X1

Issue Date:10 Jun 2024

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|--|--|--|
| Title of Change: | Update to FPCN25638X for part MBRS2H100T3G - Goodark - SMA, SMB, and SMC product transfer to a new test and assembly site location. Correction of assembly and test sites | |
| 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: | 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 update notification informs customers that MBRS2H100T3G is only qualified at the Goodark site (with no existing onsemi OSV qualification for this part).

Additionally, the table has been updated to reflect changes in both assembly and test site, transitioning to the new Goodark site.

From :

| | From | To |
|----------------------|--|---|
| Assembly Site | <u>Site No. 31, Goodark China</u> onsemi OSV, Vietnam | <u>Site No. 200, Goodark China</u> onsemi OSV, Vietnam |

To:

| | From | To |
|-------------------------------|----------------------------|-----------------------------|
| Assembly and Test Site | Site No. 31, Goodark China | Site No. 200, Goodark China |



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Reliability Data Summary:

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 |

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 |
|--------------|-----------------------|
| MBRS2H100T3G | MURS360BT3G |

Appendix A: Changed Products

PCN#: FPCN25638X1
Issue Date: Jun 09, 2024

DIKG: DIGI-KEY

| Product | Customer Part Number | Qualification Vehicle | New Part Number | Replacement Supplier |
|--------------|----------------------|-----------------------|-----------------|----------------------|
| MBRS2H100T3G | | MURS360BT3G | #NONE | |