



# Final Product/Process Change Notification

Document #:FPCN23483X

Issue Date: 03 Nov 2020

<b>Title of Change:</b>	Subcontractor Assembly Site for Ultrafast Rectifiers in SMA and SMB Packages Qualification.
<b>Proposed First Ship date:</b>	10 Feb 2021 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:Phuong.Hoang@onsemi.com">Phuong.Hoang@onsemi.com</a>
<b>PCN Samples Contact:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:PCN.samples@onsemi.com">PCN.samples@onsemi.com</a> 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.
<b>Additional Reliability Data:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:MohdHairwan.MdNor@onsemi.com">MohdHairwan.MdNor@onsemi.com</a>
<b>Type of Notification:</b>	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. ON Semiconductor will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>
<b>Marking of Parts/ Traceability of Change:</b>	Products from Good-Ark will be marked with site code "g" prior to date code.
<b>Change Category:</b>	Assembly Change, Test Change
<b>Change Sub-Category(s):</b>	Manufacturing Site Transfer

**Sites Affected:**

**ON Semiconductor Sites**

None

**External Foundry/Subcon Sites**

Good-Ark, China

**Description and Purpose:**

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

The Ultrafast products in SMA & SMB packages are currently being assembled and tested at ON Semiconductor Vietnam and ON Semiconductor 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	
<b>Assembly/Test Sites</b>	ON Malaysia / ON Vietnam	ON Malaysia / ON Vietnam	Good-Ark China
<b>Mold Compound</b>	MC NITTO GE-200HH	MC NITTO GE-200HH	Sumikon EME-E220 Type H

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

**Reliability Data Summary:****QV DEVICE NAME: MURA240T3G (Ultrafast Rectifier)****RMS : V69101****PACKAGE: SMA**

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta = 150 °C, bias = 100% of 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, deltaTj=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: MURS260T3G (Ultrafast Rectifier)****RMS : V69106****PACKAGE: SMB**

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta = 150 °C, bias = 100% of 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, deltaTj=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

**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
MURA230T3G	MURA240T3G
MURA240T3G	MURA240T3G
MURA260T3G	MURA240T3G
MURS105T3G	MURS260T3G
MURS110T3G	MURS260T3G
MURS115T3G	MURS260T3G
MURS120T3G	MURS260T3G
MURS220T3G	MURS260T3G
MURS160T3G	MURS260T3G
MURS140T3G	MURS260T3G
MURHS160T3G	MURS260T3G
MURS205T3G	MURS260T3G
MURS210T3G	MURS260T3G
MURS230T3G	MURS260T3G
MURS240T3G	MURS260T3G
MURS260T3G	MURS260T3G
MURA105T3G	MURA240T3G
MURA110T3G	MURA240T3G
MURA115T3G	MURA240T3G
MURA120T3G	MURA240T3G
MURA130T3G	MURA240T3G
MURA140T3G	MURA240T3G
MURA160T3G	MURA240T3G
MURA205T3G	MURA240T3G
MURA210T3G	MURA240T3G
MURA215T3G	MURA240T3G
MURA220T3G	MURA240T3G

Japanese translation of the notification starts here.  
通知の日本語訳はここから始まります。

*Note: The Japanese version is for reference only. In case of any differences between the English and Japanese version, the English version shall control.*

注：日本語版は参照用です。英語版と日本語版の違いがある場合は、英語版が優先されます。



## 最終製品 / プロセス変更通知

文書番号# : FPCN23483X

発行日: 03 Nov 2020

変更件名:	SMA および SMB パッケージの超高速整流器の外注組立拠点の認定			
初回出荷予定日:	10 Feb 2021 またはお客様からの承認が得られた場合はそれ以前			
連絡先情報:	現地のオン・セミコンダクター営業所または <a href="mailto:Phuong.Hoang@onsemi.com">Phuong.Hoang@onsemi.com</a> にお問い合わせください。			
サンプル:	現地のオン・セミコンダクター営業所または <a href="mailto:PCN.samples@onsemi.com">PCN.samples@onsemi.com</a> にお問い合わせください。 サンプルは、この変更の初回通知、初回 PCN の日付から 30 日以内に要求してください。 サンプル納入時は、依頼日、数量、特別梱包材/ラベル条件によって異なります。			
追加の信頼性データ:	お客さまの地域のオン・セミコンダクター営業所または <a href="mailto:MohdHairwan.MdNor@onsemi.com">MohdHairwan.MdNor@onsemi.com</a> にお問い合わせください。			
通知種別	これは、お客様宛の最終製品 / プロセス変更通知 (FPCN) です。FPCN は、変更実施の 90 日前に発行されます。 オン・セミコンダクターは、この通知の送付から 30 日以内に書面による問い合わせがない限り、この変更が承諾されたものとみなします。お問い合わせは <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> 宛てをお願いします。			
変更部品の識別:	Good-Ark からの製品には、日付コードの前に拠点コード「g」がマークされます。			
変更カテゴリ: 検査の変更、組立の変更				
変更サブカテゴリ: 製造拠点の移管				
影響を受ける拠点:				
オン・セミコンダクター拠点:	外部製造工場 / 下請業者拠点:			
無し	Good-Ark, China			
説明および目的:				
この最終製品変更通知 (FPCN) は、SMA および SMB パッケージの超高速製品の追加の組立および検査拠点として Good-ark (中国) を認定する予定であることをお知らせするものです。				
SMA および SMB パッケージの超高速製品は、現在、オン・セミコンダクター ベトナムおよびオン・セミコンダクター セレンバン (マレーシア) で組立および検査が行われています。本 FPCN の期間が満了した時点で、その部品表を使用して Good-Ark 拠点で該当製品を処理できるようになります。				
	変更前の表記		変更後の表記	
組立/検査の拠点	ON Malaysia / ON Vietnam		ON Malaysia / ON Vietnam	Good-Ark China
モールドコンパウンド	MC NITTO GE-200HH		MC NITTO GE-200HH	Sumikon EME-E220 Type H
組み立て工場コードマーキング	変更前 (ON Vietnam, ON Malaysia)		変更後 (Good-Ark China)	
SMA	VN, R		g	
SMB	V, R		g	



## 信頼性データの要約:

デバイス名: MURA240T3G (Ultrafast Rectifier)

RMS: V69101

パッケージ: SMA

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Ta = 150 °C, bias = 100% of 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, deltaTj=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

デバイス名: MURS260T3G (Ultrafast Rectifier)

RMS: V69106

パッケージ: SMB

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Ta = 150 °C, bias = 100% of 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, deltaTj=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

**電気的特性の要約:**

電気的特性に影響はありません。

**影響を受ける部品の一覧:**

注: 部品一覧には標準部品番号 (既製品) のみが記載されています。本 PCN の影響を受けるカスタム部品番号は、PCN メールで提供される顧客個別の付録、または PCN カスタマイズポータルに記載されています。

部品番号	認定試験用ピークル
MURA230T3G	MURA240T3G
MURA240T3G	MURA240T3G
MURA260T3G	MURA240T3G
MURS105T3G	MURS260T3G
MURS110T3G	MURS260T3G
MURS115T3G	MURS260T3G
MURS120T3G	MURS260T3G
MURS220T3G	MURS260T3G
MURS160T3G	MURS260T3G
MURS140T3G	MURS260T3G
MURHS160T3G	MURS260T3G
MURS205T3G	MURS260T3G
MURS210T3G	MURS260T3G
MURS230T3G	MURS260T3G
MURS240T3G	MURS260T3G
MURS260T3G	MURS260T3G
MURA105T3G	MURA240T3G
MURA110T3G	MURA240T3G
MURA115T3G	MURA240T3G
MURA120T3G	MURA240T3G
MURA130T3G	MURA240T3G
MURA140T3G	MURA240T3G
MURA160T3G	MURA240T3G
MURA205T3G	MURA240T3G
MURA210T3G	MURA240T3G
MURA215T3G	MURA240T3G
MURA220T3G	MURA240T3G



## Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MURA230T3G		MURA240T3G	NA	
MURA240T3G		MURA240T3G	NA	
MURA260T3G		MURA240T3G	NA	
MURS105T3G		MURS260T3G	NA	
MURS110T3G		MURS260T3G	NA	
MURS115T3G		MURS260T3G	NA	
MURS120T3G		MURS260T3G	NA	
MURS220T3G		MURS260T3G	NA	
MURS140T3G		MURS260T3G	NA	
MURS205T3G		MURS260T3G	NA	
MURS210T3G		MURS260T3G	NA	
MURS160T3G		MURS260T3G	NA	
MURS260T3G		MURS260T3G	NA	
MURA110T3G		MURA240T3G	NA	
MURA115T3G		MURA240T3G	NA	
MURA120T3G		MURA240T3G	NA	
MURA130T3G		MURA240T3G	NA	
MURA140T3G		MURA240T3G	NA	
MURA160T3G		MURA240T3G	NA	
MURA210T3G		MURA240T3G	NA	
MURA220T3G		MURA240T3G	NA	
MURS230T3G		MURS260T3G	NA	
MURS240T3G		MURS260T3G	NA	
MURA105T3G		MURA240T3G	NA	
MURA205T3G		MURA240T3G	NA	
MURA215T3G		MURA240T3G	NA	





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**Appendix A: Changed Products**

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MRHO : MAR-HINO SA

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MURS260T3G		MURS260T3G	NA	