



Final Product/Process Change Notification

Document #:FPCN23483XB

Issue Date:28 Jun 2021

Title of Change:	Subcontractor Assembly Site for Rectifiers in SMA, SMB and SMC Packages Qualification		
Proposed First Ship date:	05 Oct 2021 or earlier if approved by customer		
Contact Information:	Contact your local ON Semiconductor Sales Office or Hoang.Nguyen@onsemi.com		
PCN Samples Contact:	Contact your local ON Semiconductor Sales Office or <PCN.samples@onsemi.com> . 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 ON Semiconductor Sales Office or MohdHairwan.MdNor@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. 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 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:			
ON Semiconductor Sites		External Foundry/Subcon Sites	
None		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 Schottky products in SMA, SMB and SMC packages.			
The Schottky products in SMA, SMB & SMC 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	
Assembly/Test Sites	ON Semiconductor Seremban, Malaysia / ON Semiconductor Vietnam	ON Semiconductor Seremban, Malaysia / ON Semiconductor Vietnam	Good-Ark China
Mold Compound	MC NITTO GE-200HH	MC NITTO GE-200HH	HYSOL GR530
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	

**Reliability Data Summary:****QV DEVICE NAME: MBRA1H100T3G****RMS: 74200****PACKAGE: SMA**

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta = 90 °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: MBR5140T3G**RMS: 74202****PACKAGE: SMB**

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta = 90 °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: MBR53200T3G****RMS: 74201****PACKAGE: SMB**

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta = 90 °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: MBR54201T3G**RMS: 74203****PACKAGE: SMC**

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Ta = 90 °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
MBRA1H100T3G	MBRA1H100T3G
MBRA320T3G	MBRA1H100T3G
MBRA160T3G	MBRA1H100T3G
MBRA130LT3G	MBRA1H100T3G
MBRA120ET3G	MBRA1H100T3G
MBRA140T3G	MBRA1H100T3G
SS16T3G	MBRA1H100T3G
MBRS140T3G	MBRS140T3G
MBRS1540T3G	MBRS140T3G
MBRS260T3G	MBRS140T3G
SS22T3G	MBRS140T3G
SS24T3G	MBRS140T3G
MBRS360T3G	MBRS4201T3G
MBRS340T3G	MBRS4201T3G
MBRS330T3G	MBRS4201T3G
MBRS320T3G	MBRS4201T3G
MBRS540T3G	MBRS4201T3G
MBRS3201T3G	MBRS4201T3G
MBRS3100T3G	MBRS4201T3G
MBRS4201T3G	MBRS4201T3G
MBRS2H100T3G	MBRS3200T3G
MBRS190T3G	MBRS3200T3G
MBRS1100T3G	MBRS3200T3G
MBRS360BT3G	MBRS3200T3G
MBRS2040LT3G	MBRS3200T3G
MBRS240LT3G	MBRS3200T3G
MBRS3200T3G	MBRS3200T3G
MBRS130T3G	MBRS140T3G
MBRS120T3G	MBRS140T3G



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MBRS230LT3G	MBRS140T3G
MBRS130LT3G	MBRS140T3G
SS26T3G	MBRS140T3G

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# : FPCN23483XB

発行日: 28 Jun 2021

変更件名:	SMA、SMB、SMC パッケージ整流器の下請業者の組み立て拠点の認定		
初回出荷予定日:	2021 年 10 月 5 日 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 < Hoang.Nguyen@onsemi.com > 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 < PCN.Samples@onsemi.com > にお問い合わせください。 サンプルは、イニシアル PCN またはファイナル PCN の初回通知の日付から 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 < MohdHairwan.MdNor@onsemi.com > にお問い合わせください。		
通知種別:	これは、お客様宛のファイナル製品/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、< PCN.Support@onsemi.com > 宛てにお願いします。		
変更部品の識別:	Good-Ark の製品には、デートコードの前に拠点コード「g」が表示されます。		
変更カテゴリ:	テストの変更, 組立の変更		
変更サブカテゴリ:	製造拠点の追加		
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:			
このファイナル製品変更通知 (FPCN) は、SMA および SMB パッケージの Schottky 製品について追加の組立およびテスト拠点として 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 および SMC パッケージの Schottky 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) で組立およびテストが行われています。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 拠点で該当製品を生産できるようになります。			
	変更前の表記	変更後の表記	
組立拠点/テスト拠点	ON Semiconductor Seremban, Malaysia / ON Semiconductor Vietnam	ON Semiconductor Seremban, Malaysia / ON Semiconductor Vietnam	Good-Ark China
モールド・コンパウンド	MC NITTO GE-200HH	MC NITTO GE-200HH	HYSOL GR530
組立工場コードマーキング	変更後 (ON Vietnam, ON Malaysia)	変更前 (Good-Ark China)	
SMA	VN, R	g	
SMB	V, R	g	
SMC	VN, R	g	



信頼性データの要約:

デバイス名: MBRA1H100T3G

RMS: 74200

パッケージ: SMA

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Ta = 90 °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: MBR5140T3G

RMS: 74202

パッケージ: SMB

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Ta = 90 °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
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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: MBR53200T3G

RMS: 74201

パッケージ: SMB

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Ta = 90 °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: MBR54201T3G

RMS: 74203

パッケージ: SMC

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Ta = 90 °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:

電気的特性への影響はありません。



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
MBRA1H100T3G	MBRA1H100T3G
MBRA320T3G	MBRA1H100T3G
MBRA160T3G	MBRA1H100T3G
MBRA130LT3G	MBRA1H100T3G
MBRA120ET3G	MBRA1H100T3G
MBRA140T3G	MBRA1H100T3G
SS16T3G	MBRA1H100T3G
MBRS140T3G	MBRS140T3G
MBRS1540T3G	MBRS140T3G
MBRS260T3G	MBRS140T3G
SS22T3G	MBRS140T3G
SS24T3G	MBRS140T3G
MBRS360T3G	MBRS4201T3G
MBRS340T3G	MBRS4201T3G
MBRS330T3G	MBRS4201T3G
MBRS320T3G	MBRS4201T3G
MBRS540T3G	MBRS4201T3G
MBRS3201T3G	MBRS4201T3G
MBRS3100T3G	MBRS4201T3G
MBRS4201T3G	MBRS4201T3G
MBRS2H100T3G	MBRS3200T3G
MBRS190T3G	MBRS3200T3G
MBRS1100T3G	MBRS3200T3G
MBRS360BT3G	MBRS3200T3G
MBRS2040LT3G	MBRS3200T3G
MBRS240LT3G	MBRS3200T3G
MBRS3200T3G	MBRS3200T3G
MBRS130T3G	MBRS140T3G
MBRS120T3G	MBRS140T3G
MBRS230LT3G	MBRS140T3G
MBRS130LT3G	MBRS140T3G
SS26T3G	MBRS140T3G