



## Final Product/Process Change Notification

Document #:FPCN22647XW1

Issue Date:14 May 2020

<b>Title of Change:</b>	Update Notification of FPCN22647XW: EMC change from Samsung SI7200DX2 to Sumitomo EME-E500HA for rectifier products in Tongfu Microelectronics Co., Ltd, China (TFME) with new Proposed First Ship Date.
<b>Proposed First Ship date:</b>	01 Jun 2020 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:norsahida.sahman@onsemi.com">norsahida.sahman@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:Lalan.Ortega@onsemi.com">Lalan.Ortega@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>	No change in marking
<b>Change Category:</b>	Assembly Change
<b>Change Sub-Category(s):</b>	Material Change
<b>Sites Affected:</b>	
<b>ON Semiconductor Sites</b>	<b>External Foundry/Subcon Sites</b>
None	Tongfu Microelectronics Co., Ltd., China

**Description and Purpose:**

ON Semiconductor wishes to inform to all of our customers of a change in the mold compound used for the devices listed in this PCN for rectifier products manufactured in our subcontractor factory, TFME. This is the final product change notification (FPCN) of IPCN22647.

This change is a result of an End of Life notification received from Samsung for several of their SDI Mold Compounds. Due to the discontinuance of the SDI mold compounds, ON Semiconductor will only have limited supplies of the existing material and in some cases this may not allow for the normal change notification period.

All other aspects of the impacted products (form, fit, function) will remain unchanged.

This Notification must be re-issued with an earlier implementation date due to projected shortages of the current supply of the impacted mold compound. Our current supplier was unable to sufficiently serve our demand during this end of life process. We hope this does not cause any inconveniences.

	Before Change Description	After Change Description
<b>Mold compound (TO-262 Package)</b>	Samsung SI7200DX2	Sumitomo EME-E500HA

There is no product marking change as a result of this change.



## Reliability Data Summary:

## QV2 MBR60L45CTG

QV DEVICE NAME: MBR60L45CTG

RMS : S58781, S61996, S61997, O62734PACKAGE : TO-220 RECTIFIER 3LD PBF

## ISMF Wafer

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 85°C, 80% rated	1008 hrs	0/80
HTSL	JESD22-A103	Ta = 150°C	1008 hrs	0/80
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, delta Tj=100°C On/off = 3.5 min	8572 cyc	0/80
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/80
AC	JESD22 A102	Ta = 121°C, P= 15 PSIG, RH = 100%	96 hrs	0/80
H3TRB	JESD22 A101	Ta = 85°C, 85% RH, V=80% rated V	1008 hrs	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/15

## HAINA Lion Wafer

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 85°C, 80% rated	1008 hrs	0/80
HTSL	JESD22-A103	Ta = 150°C	1008 hrs	0/80
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, delta Tj=100°C On/off = 3.5 min	8572 cyc	0/80
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/80
AC	JESD22 A102	Ta = 121°C, P= 15 PSIG, RH = 100%	96 hrs	0/80
H3TRB	JESD22 A101	Ta = 85°C, 85% RH, V=80% rated V	1008 hrs	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/15

**QV5 MUR8100EG**

QV DEVICE NAME: MUR8100EG

RMS : S58798, O61983

PACKAGE : TO-220 RECTIFIER 2LD PBF

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 150°C, 80% rated	1008 hrs	0/80
HTSL	JESD22-A103	Ta = 150°C	1008 hrs	0/80
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, delta Tj=100°C On/off = 3.5 min	8572 cyc	0/80
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/80
AC	JESD22 A102	Ta = 121°C, P= 15 PSIG, RH = 100%	96 hrs	0/80
H3TRB	JESD22 A101	Ta = 85°C, 85% RH, V=80% rated V	1008 hrs	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/15

**QV6 NTST40H120CTG**

QV DEVICE NAME: NTST40H120CTG

RMS : S58799, O61982, S62092, S62093

PACKAGE : TO-220 RECT 3LD 4WR PBF

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 90°C, 80% rated	1008 hrs	0/80
HTSL	JESD22-A103	Ta = 150°C	1008 hrs	0/80
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, delta Tj=100°C On/off = 3.5 min	8572 cyc	0/80
TC	JESD22-A104	Ta = -55°C to +150°C	1000 cyc	0/80
AC	JESD22 A102	Ta = 121°C, P= 15 PSIG, RH = 100%	96 hrs	0/80
H3TRB	JESD22 A101	Ta = 85°C, 85% RH, V=80% rated V	1008 hrs	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/15

QV DEVICE NAME: **NTSB40120CT-1G**RMS : **S58783, O61447, S61998, S61999**PACKAGE : **TO-262 (I2PAK 3 DUAL 4WI PBF)**

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 85°C, 85% max rated V	1008 hrs	0/80
HTSL	JESD22-A103	Ta = 150°C	1008 hrs	0/80
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, delta Tj=100°C On/off = 3.5 min	8572 cyc	0/80
TC	JESD22-A104	Ta = -55°C to +150°C	1000 cyc	0/80
AC	JESD22 A102	Ta = 121°C, P= 15 PSIG, RH = 100%	96 hrs	0/80
H3TRB	JESD22 A101	Ta = 85°C, 85% RH, V=80% rated V	1008 hrs	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/15

QV DEVICE NAME: **NTSB60100CT-1G**RMS : **S58783, O61447, S61998, S61999**PACKAGE : **TO-262 (I2PAK 3 DUAL 4WI PBF)**

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 85°C, 80% rated	1008 hrs	0/80
HTSL	JESD22-A103	Ta = 150°C	1008 hrs	0/80
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, delta Tj=100°C On/off = 3.5 min	8572 cyc	0/80
TC	JESD22-A104	Ta = -55°C to +150°C	1000 cyc	0/80
AC	JESD22 A102	Ta = 121°C, P= 15 PSIG, RH = 100%	96 hrs	0/80
H3TRB	JESD22 A101	Ta = 85°C, 85% RH, V=80% rated V	1008 hrs	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/15

**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
NTST30U100CTG	MBR60L45CTG
NTST40100CTG	MBR60L45CTG
NTST40120CTG	MBR60L45CTG
NTST40H120CTG	NTST40H120CTG
NTST40H120ECTG	MBR60L45CTG
NTST60100CTG	MBR60L45CTG
MUR1620CTG	MUR8100EG
MBRB3045CT-1G	NTSB40120CT-1G
MBRB30H30CT-1G	NTSB40120CT-1G
MBRB30H60CT-1G	NTSB40120CT-1G
MBRB41H100CT-1G	NTSB40120CT-1G
NTSB20100CT-1G	NTSB40120CT-1G
NTSB20120CT-1G	NTSB40120CT-1G
NTSB20U100CT-1G	NTSB40120CT-1G
NTSB30100CT-1G	NTSB40120CT-1G
NTSB30100S-1G	NTSB40120CT-1G
NTSB30120CT-1G	NTSB40120CT-1G
NTSB30U100CT-1G	NTSB40120CT-1G
NTSB40100CT-1G	NTSB40120CT-1G
NTSB40120CT-1G	NTSB40120CT-1G
NTSB60100CT-1G	NTSB60100CT-1G
BYV32-200G	MUR8100EG
BYW29-200G	MUR8100EG
BYW51-200G	MUR8100EG
BYW80-200G	MUR8100EG
MBR10100G	MBR60L45CTG
MBR1035G	MBR60L45CTG
MBR1045G	MBR60L45CTG
MBR1060G	MBR60L45CTG



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MBR1080G	MBR60L45CTG
MBR1090G	MBR60L45CTG
MBR10L60CTG	MBR60L45CTG
MBR1535CTG	MBR60L45CTG
MBR1545CTG	MBR60L45CTG
MBR16100CTG	MBR60L45CTG
MBR1635G	MBR60L45CTG
MBR1645G	MBR60L45CTG
MBR20200CTG	MBR60L45CTG
MBR2030CTLG	MBR60L45CTG
MBR2060CTG	MBR60L45CTG
MBR2080CTG	MBR60L45CTG
MBR2090CTG	MBR60L45CTG
MBR20H150CTG	MBR60L45CTG
MBR20L60CTG	MBR60L45CTG
MBR2515LG	MBR60L45CTG
MBR2535CTG	MBR60L45CTG
MBR2535CTLG	MBR60L45CTG
MBR2545CTG	MBR60L45CTG
MBR30H100CTG	MBR60L45CTG
MBR30H30CTG	MBR60L45CTG
MBR30L60CTG	MBR60L45CTG
MBR4015CTLG	MBR60L45CTG
MBR40250G	MBR60L45CTG
MBR40250TG	MBR60L45CTG
MBR40L45CTG	MBR60L45CTG
MBR40L60CTG	MBR60L45CTG
MBR41H100CTG	MBR60L45CTG
MBR60H100CTG	MBR60L45CTG
MBR60L45CTG	MBR60L45CTG
MBR735G	MBR60L45CTG
MBR745G	MBR60L45CTG
MSR1560G	MUR8100EG
MSR860G	MUR8100EG



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MUR1510G	MUR8100EG
MUR1515G	MUR8100EG
MUR1520G	MUR8100EG
MUR1540G	MUR8100EG
MUR1560G	MUR8100EG
MUR1610CTG	MUR8100EG
MUR1615CTG	MUR8100EG
MUR1620CTRG	MUR8100EG
MUR1660CTG	MUR8100EG
MUR2020RG	MUR8100EG
MUR550PFG	MUR8100EG
MUR620CTG	MUR8100EG
MUR805G	MUR8100EG
MUR8100EG	MUR8100EG
MUR810G	MUR8100EG
MUR815G	MUR8100EG
MUR820G	MUR8100EG
MUR840G	MUR8100EG
MUR860G	MUR8100EG
MUR880EG	MUR8100EG
MURH840CTG	MUR8100EG
NRTST40H100CTG	MBR60L45CTG
NTST20100CTG	MBR60L45CTG
NTST20120CTG	MBR60L45CTG
NTST20U100CTG	MBR60L45CTG
NTST30100CTG	MBR60L45CTG
NTST30100SG	MBR60L45CTG
NTST30120CTG	MBR60L45CTG

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# : FPCN22647XW1

発行日: 14 May 2020

変更件名:	FPCN22647XW の更新通知 (新たな初回出荷予定日): 整流器製品の Tongfu Microelectronics Co., Ltd、China (TFME)における TO-220 パッケージの EMC を Samsung SI7200DX2 から Sumitomo EME-E500HA に変更							
初回出荷予定日:	01 Jun 2020 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:norsahida.sahman@onsemi.com">norsahida.sahman@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:PCN.samples@onsemi.com">PCN.samples@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:	マーキングに変更はありません。							
変更カテゴリ:	アセンブリの変更							
変更サブカテゴリ:	材料の変更							
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	Tongfu Microelectronics Co., Ltd., China							
<p><b>説明および目的:</b></p> <p>オン・セミコンダクターは、外注工場である中国の Tongfu Microelectronics Co., Ltd (TFME) で製造された TO-220 パッケージで、この PCN に記載されている製品に使用されるモールドコンパウンドの変更についてお客様にお知らせします。これは、IPC22647 の最終製品変更通知 (FPCN) です。</p> <p>この変更は、SDI モールドコンパウンドのいくつかについて Samsung から受けた生産終了の通知によるものです。SDI モールド コンパウンドの廃止によって、オン・セミコンダクターでは既存の材料の供給が限定されるようになるため、場合によっては、このことによって通常の変更通知期間が不可能になる場合があります。</p> <p>対象となる製品の他の特徴(形状、適合性、機能)には変更はありません。</p> <p>本通知は、影響を受けるモールド コンパウンドの現在の供給不足予測を受けて早期変更実施日の再通知です。現在の供給業者は、本生産終了プロセスにおける弊社の需要に十分に対応できなくなりました。これにより不都合が一切生じないことを弊社は希望しております。</p> <table border="1"> <thead> <tr> <th>プロセス</th> <th>変更前の表記</th> <th>変更後の表記</th> </tr> </thead> <tbody> <tr> <td>モールド・コンパウンド (TO-262 Package)</td> <td>Samsung SI7200DX2</td> <td>Sumitomo EME-E500HA</td> </tr> </tbody> </table> <p>この変更に伴う製品マーキングの変更はありません。</p>			プロセス	変更前の表記	変更後の表記	モールド・コンパウンド (TO-262 Package)	Samsung SI7200DX2	Sumitomo EME-E500HA
プロセス	変更前の表記	変更後の表記						
モールド・コンパウンド (TO-262 Package)	Samsung SI7200DX2	Sumitomo EME-E500HA						



## 信頼性データの要約:

## QV2 MBR60L45CTG

デバイス名: MBR60L45CTGRMS : S58781, S61996, S61997, O62734パッケージ: TO-220 RECTIFIER 3LD PBF

## ISMF Wafer

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Ta = 85°C, 80% rated	1008 hrs	0/80
HTSL	JESD22-A103	Ta = 150°C	1008 hrs	0/80
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, delta Tj=100°C On/off = 3.5 min	8572 cyc	0/80
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/80
AC	JESD22 A102	Ta = 121°C, P= 15 PSIG, RH = 100%	96 hrs	0/80
H3TRB	JESD22 A101	Ta = 85°C, 85% RH, V=80% rated V	1008 hrs	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/15

## HAINA Lion Wafer

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Ta = 85°C, 80% rated	1008 hrs	0/80
HTSL	JESD22-A103	Ta = 150°C	1008 hrs	0/80
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, delta Tj=100°C On/off = 3.5 min	8572 cyc	0/80
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## QV5 MUR8100EG

デバイス名: MUR8100EG

RMS : S58798, O61983

パッケージ: TO-220 RECTIFIER 2LD PBF

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Ta = 150°C, 80% rated	1008 hrs	0/80
HTSL	JESD22-A103	Ta = 150°C	1008 hrs	0/80
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, delta Tj=100°C On/off = 3.5 min	8572 cyc	0/80
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SD	JSTD002	Ta = 245C, 10 sec		0/15

## QV6 NTST40H120CTG

デバイス名: NTST40H120CTGRMS : S58799, O61982, S62092, S62093パッケージ: TO-220 RECT 3LD 4WR PBF

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Ta = 90°C, 80% rated	1008 hrs	0/80
HTSL	JESD22-A103	Ta = 150°C	1008 hrs	0/80
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, delta Tj=100°C On/off = 3.5 min	8572 cyc	0/80
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RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/15

デバイス名: NTSB40120CT-1GRMS : S58783, O61447, S61998, S61999パッケージ: TO-262 (I2PAK 3 DUAL 4WI PBF)

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Ta = 85°C, 85% max rated V	1008 hrs	0/80
HTSL	JESD22-A103	Ta = 150°C	1008 hrs	0/80
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, delta Tj=100°C On/off = 3.5 min	8572 cyc	0/80
TC	JESD22-A104	Ta = -55°C to +150°C	1000 cyc	0/80
AC	JESD22 A102	Ta = 121°C, P= 15 PSIG, RH = 100%	96 hrs	0/80
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RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/15

デバイス名: NTSB60100CT-1GRMS : S58783, O61447, S61998, S61999パッケージ: TO-262 (I2PAK 3 DUAL 4WI PBF)

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Ta = 85°C, 80% rated	1008 hrs	0/80
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TC	JESD22-A104	Ta = -55°C to +150°C	1000 cyc	0/80
AC	JESD22 A102	Ta = 121°C, P= 15 PSIG, RH = 100%	96 hrs	0/80
H3TRB	JESD22 A101	Ta = 85°C, 85% RH, V=80% rated V	1008 hrs	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/15

## 電氣的特性の要約:

電氣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
NTST30U100CTG	MBR60L45CTG
NTST40100CTG	MBR60L45CTG
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NTSB30100CT-1G	NTSB40120CT-1G
NTSB30100S-1G	NTSB40120CT-1G
NTSB30120CT-1G	NTSB40120CT-1G
NTSB30U100CT-1G	NTSB40120CT-1G
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NTSB40120CT-1G	NTSB40120CT-1G
NTSB60100CT-1G	NTSB60100CT-1G
BYV32-200G	MUR8100EG
BYW29-200G	MUR8100EG
BYW51-200G	MUR8100EG
BYW80-200G	MUR8100EG
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MBR1535CTG	MBR60L45CTG
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MUR1520G	MUR8100EG
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