



Title of Change:	Add Sumitomo mold compound E500 LL for SOT-23 industrial part.
Proposed First Ship date:	10 Aug 2020 or earlier if approved by customer
Contact Information:	Contact your local ON Semiconductor Sales Office or Jim.Peng@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 ffvf9f@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:	Assembly Lot Number
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:

ON Semiconductor Sites

Leshan Phoenix Semiconductor, China

External Foundry/Subcon Sites

None

Description and Purpose:

Upon the expiration of this PCN, these devices will be built with 3 mold compounds at the same site. Datasheet specifications and product electrical performance remain unchanged. Reliability qualification and full electrical characterization over temperature had been performed. The purpose of this change is to add new mold compound as second source. There is no part number and product marking change as a result of this change.

Material to be change	Before Change Description	After Change Description
Mold Compound	Henkel GR640 HV Hitachi GE200 FHWG	Henkel GR640 HV Hitachi GE200 FHWG Sumitomo E500 LL

**Reliability Data Summary:**

Qual Vehicle Device: MMBZ5270BLT1G

RMS: 54669, 55602

Package: SOT-23

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= max, V=100% rated V	1008 hrs	0/231
HTSL	JEDS22- A103	Temp.=150°C,no bias	1008 hrs	0/231
SSOP	AEC-Q101-REV-D1 (JESD22-A108)	IZ max, Ta to rated Tj	1008 hrs	0/231
PC	JESD22-A113	MSL 1 @ 260 °C	Before H3TRB, TC, UHAST, AC, IOL	0/924
H3TRB	JESD22-A101	Temp = 85C, RH=85%, bias = 80% of rated V or 100V max	1008 hrs	0/231
TC	JESD22-A104	Ta= - 65°C to +150°C	1000 cyc	0/231
UHAST	JESD22-A118	Ta=130C, 85% RH, no bias	96 hrs	0/231
IOL	MIL-STD-750	Ta=+25°C, delta Tj=100°C, On/off = 2 min	15000 cycs	0/231
RSH	JESD22-B106	Ta = 265C, 10 sec	-	0/30

Qual Vehicle Device: MMBZ47VALT1G

RMS: 54673

Package: SOT-23

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= max, V=100% rated V, 1008 Hrs	1008hrs	0/231

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
MMBZ39VCLT1G	MMBZ47VALT1G
MMBZ39VCLT3G	MMBZ47VALT1G
MMBZ5256ELT1G	MMBZ5270BLT1G
MMBZ5263BLT1G	MMBZ5270BLT1G
MMBZ5268BLT1G	MMBZ5270BLT1G
MMBZ5270BLT1G	MMBZ5270BLT1G
MMBZ6V2ALT1G	MMBZ47VALT1G
MMBZ9V1ALT1G	MMBZ47VALT1G
NUP1105LT1G	MMBZ47VALT1G



NUP1301ML3T1G	MMBZ47VALT1G
NUP2105LT1G	MMBZ47VALT1G
NUP2115LT1G	MMBZ47VALT1G
NUP2115LT3G	MMBZ47VALT1G
BZX84B10LT1G	MMBZ5270BLT1G
BZX84B12LT1G	MMBZ5270BLT1G
BZX84B15LT1G	MMBZ5270BLT1G
BZX84B16LT1G	MMBZ5270BLT1G
BZX84B18LT1G	MMBZ5270BLT1G
BZX84B22LT1G	MMBZ5270BLT1G
BZX84B24LT1G	MMBZ5270BLT1G
BZX84B27LT1G	MMBZ5270BLT1G
BZX84B3V3LT1G	MMBZ5270BLT1G
BZX84B4V7LT1G	MMBZ5270BLT1G
BZX84B5V1LT1G	MMBZ5270BLT1G
BZX84B5V6LT1G	MMBZ5270BLT1G
BZX84B6V2LT1G	MMBZ5270BLT1G
BZX84B6V8LT1G	MMBZ5270BLT1G
BZX84B7V5LT1G	MMBZ5270BLT1G
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BZX84C8V2LT1G	MMBZ5270BLT1G
BZX84C9V1LT1G	MMBZ5270BLT1G
BZX84C9V1LT3G	MMBZ5270BLT1G
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ESDONCAN1LT3G	MMBZ47VALT1G



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MMBZ12VALT1G	MMBZ47VALT1G
MMBZ15VALT1G	MMBZ47VALT1G
MMBZ15VDLT1G	MMBZ47VALT1G
MMBZ15VDLT3G	MMBZ47VALT1G
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MMBZ16VTALT1G	MMBZ47VALT1G
MMBZ18VALT1G	MMBZ47VALT1G
MMBZ20VALT1G	MMBZ47VALT1G
MMBZ27VALT1G	MMBZ47VALT1G
MMBZ27VALT3G	MMBZ47VALT1G
MMBZ27VCLT1G	MMBZ47VALT1G
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MMBZ5242ELT1G	MMBZ5270BLT1G
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MMBZ5261ELT1G	MMBZ5270BLT1G
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NUP3105LT3G	MMBZ47VALT1G
PACDN042Y3R	MMBZ47VALT1G
SL05T1G	MMBZ47VALT1G
SL12T1G	MMBZ47VALT1G
SL15T1G	MMBZ47VALT1G
SL24T1G	MMBZ47VALT1G
SM05T1G	MMBZ47VALT1G



SM15T1G	MMBZ47VALT1G
SM24T1G	MMBZ47VALT1G
SM36T1G	MMBZ47VALT1G

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# : FPCN22769XB

発行日: 07 Apr 2020

変更件名:	SOT-23 産業用製品の代替モールドコンパウンドとして住友製 E500 LL の追加	
初回出荷予定日:	10 Aug 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 Jim.Peng@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、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 ffvf9f@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、 PCN.Support@onsemi.com 宛てにお願いします。	
変更部品の識別:	組立ロット番号	
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:	
Leshan Phoenix Semiconductor, China	無し	
説明および目的:		
<p>本 PCN の期限切れに伴い、対象製品は同製造拠点で3種類のモールドコンパウンドにて製造されるようになります。データシート規格および製品の電気的性能に変更はありません。信頼性認定試験および全ての電気的溫度特性評価は実施済みです。</p> <p>この変更の目的は、セカンドソースとして新しいモールドコンパウンドを追加する事です。</p> <p>この変更の結果として、製品名や製品マーキングに変更はありません。</p>		
	変更前の表記	変更後の表記
モールド・コンパウンド	Henkel GR640 HV Hitachi GE200 FHWG	Henkel GR640 HV Hitachi GE200 FHWG Sumitomo E500 LL



信頼性データの要約:

デバイス名: MMBZ5270BLT1G

RMS: 54669, 55602

パッケージ: SOT-23

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Tj= max, V=100% rated V	1008 hrs	0/231
HTSL	JESD22-A103	Temp.=150°C, no bias	1008 hrs	0/231
SSOP	AEC-Q101-REV-D1 (JESD22-A108)	IZ max, Ta to rated Tj	1008 hrs	0/231
PC	JESD22-A113	MSL 1 @ 260 °C	Before H3TRB, TC, UHAST, AC, IOL	0/924
H3TRB	JESD22-A101	Temp = 85C, RH=85%, bias = 80% of rated V or 100V max	1008 hrs	0/231
TC	JESD22-A104	Ta= - 65°C to +150°C	1000 cyc	0/231
UHAST	JESD22-A118	Ta=130C, 85% RH, no bias	96 hrs	0/231
IOL	MIL-STD-750	Ta=+25°C, delta Tj=100°C, On/off = 2 min	15000 cycs	0/231
RSH	JESD22-B106	Ta = 265C, 10 sec	-	0/30

デバイス名: MMBZ47VALT1G

RMS: 54673

パッケージ: SOT-23

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Tj= max, V=100% rated V, 1008 Hrs	1008hrs	0/231

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
MMBZ39VCLT1G	MMBZ47VALT1G
MMBZ39VCLT3G	MMBZ47VALT1G
MMBZ5256ELT1G	MMBZ5270BLT1G
MMBZ5263BLT1G	MMBZ5270BLT1G
MMBZ5268BLT1G	MMBZ5270BLT1G
MMBZ5270BLT1G	MMBZ5270BLT1G
MMBZ6V2ALT1G	MMBZ47VALT1G
MMBZ9V1ALT1G	MMBZ47VALT1G
NUP1105LT1G	MMBZ47VALT1G



NUP1301ML3T1G	MMBZ47VALT1G
NUP2105LT1G	MMBZ47VALT1G
NUP2115LT1G	MMBZ47VALT1G
NUP2115LT3G	MMBZ47VALT1G
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BZX84B12LT1G	MMBZ5270BLT1G
BZX84B15LT1G	MMBZ5270BLT1G
BZX84B16LT1G	MMBZ5270BLT1G
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BZX84C9V1LT1G	MMBZ5270BLT1G
BZX84C9V1LT3G	MMBZ5270BLT1G
ESDONCAN1LT1G	MMBZ47VALT1G
ESDONCAN1LT3G	MMBZ47VALT1G
MA3075WALT1G	MMBZ47VALT1G
MMBZ12VALT1G	MMBZ47VALT1G



MMBZ15VALT1G	MMBZ47VALT1G
MMBZ15VDLT1G	MMBZ47VALT1G
MMBZ15VDLT3G	MMBZ47VALT1G
MMBZ16VALT1G	MMBZ47VALT1G
MMBZ16VTALT1G	MMBZ47VALT1G
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MMBZ27VALT3G	MMBZ47VALT1G
MMBZ27VCLT1G	MMBZ47VALT1G
MMBZ33VALT1G	MMBZ47VALT1G
MMBZ47VALT1G	MMBZ47VALT1G
MMBZ47VTALT1G	MMBZ47VALT1G
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MMBZ5230BLT1G	MMBZ5270BLT1G
MMBZ5231BLT1G	MMBZ5270BLT1G
MMBZ5231BLT3G	MMBZ5270BLT1G
MMBZ5231ELT1G	MMBZ5270BLT1G
MMBZ5232BLT1G	MMBZ5270BLT1G
MMBZ5233BLT1G	MMBZ5270BLT1G
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MMBZ5237BLT1G	MMBZ5270BLT1G
MMBZ5238BLT1G	MMBZ5270BLT1G
MMBZ5239BLT1G	MMBZ5270BLT1G
MMBZ5239ELT1G	MMBZ5270BLT1G
MMBZ5240BLT1G	MMBZ5270BLT1G
MMBZ5241BLT1G	MMBZ5270BLT1G
MMBZ5242BLT1G	MMBZ5270BLT1G



MMBZ5242BLT3G	MMBZ5270BLT1G
MMBZ5242ELT1G	MMBZ5270BLT1G
MMBZ5243BLT1G	MMBZ5270BLT1G
MMBZ5244BLT1G	MMBZ5270BLT1G
MMBZ5245BLT1G	MMBZ5270BLT1G
MMBZ5245ELT1G	MMBZ5270BLT1G
MMBZ5246BLT1G	MMBZ5270BLT1G
MMBZ5247BLT1G	MMBZ5270BLT1G
MMBZ5248BLT1G	MMBZ5270BLT1G
MMBZ5248BLT3G	MMBZ5270BLT1G
MMBZ5248ELT1G	MMBZ5270BLT1G
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MMBZ5258BLT1G	MMBZ5270BLT1G
MMBZ5259BLT1G	MMBZ5270BLT1G
MMBZ5260BLT1G	MMBZ5270BLT1G
MMBZ5261BLT1G	MMBZ5270BLT1G
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NUP3105LT1G	MMBZ47VALT1G
NUP3105LT3G	MMBZ47VALT1G
PACDN042Y3R	MMBZ47VALT1G
SL05T1G	MMBZ47VALT1G
SL12T1G	MMBZ47VALT1G
SL15T1G	MMBZ47VALT1G
SL24T1G	MMBZ47VALT1G
SM05T1G	MMBZ47VALT1G
SM15T1G	MMBZ47VALT1G
SM24T1G	MMBZ47VALT1G
SM36T1G	MMBZ47VALT1G