



Final Product/Process Change Notification

Document #:FPCN23831X

Issue Date:12 Feb 2021

Title of Change:	Addition of Asahi Kasei's BL301 polyimide material for JCAP WLCSP assembly	
Proposed First Ship date:	21 May 2021 or earlier if approved by customer	
Contact Information:	Contact your local ON Semiconductor Sales Office or Marek.Haluska@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 Vladislav.Hrachovec@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:	Affected products will be traceable by date code.	
Change Category:	Assembly Change	
Change Sub-Category(s):	Material Change	
Sites Affected:		
ON Semiconductor Sites	External Foundry/Subcon Sites	
None	JCAP, China	
Description and Purpose:		
<p>ON Semiconductor is announcing the addition of an alternate polyimide material (re-passivation layer) from Asahi Kasei's BL301 for JCAP assembly site.</p> <p>This is an alternate polyimide material only; there are no changes to the WLCSP package structure or polyimide thicknesses because of this change. There are no changes to electrical parameters or part marking due to this this alternate material.</p> <p>The polyimide addition will apply to all devices shown in the affected part list (below), as well as future products released in this location.</p> <p>Upon effectivity of this FPCN either passivation material may be utilized during manufacturing. Full traceability will be maintained, and there will be no mixing of materials within a lot.</p>		
	Polyimide Layer Before Change	Polyimide Layer After Change
PI layer name	HD4100	HD4100 or BL301
Supplier name	HD Microsystems	HD Microsystems or Asahi Kasei

**Reliability Data Summary:**QV DEVICE NAME: SCY99247CFCS120T2GRMS: S70982, S70983, S70984PACKAGE: WLCSP-6 567XZ

Test	Specification	Condition	Interval	Results
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	3x reflow	0/480
TC	JESD22-A104	Ta= -40°C to +125°C	850 cyc	0/160
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/160
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/160
ED	ON Data Sheet	Test @ Cold & Room & Hot	Cpk ≥ 1.67	0/60
PD	JESD22-B100	Per case outline	Cpk > 1.67	0/60
SBS	AEC-Q100-010	Solder Ball Shear	Cpk > 1.67	0/15

QV DEVICE NAME: SCY99217AFCT2925T2GRMS: S70985, S70986, S70987PACKAGE: WLCSP-4 567VS

Test	Specification	Condition	Interval	Results
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	3x reflow	0/480
TC	JESD22-A104	Ta= -40°C to +125°C	850 cyc	0/160
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/160
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/160
ED	ON Data Sheet	Test @ Cold & Room & Hot	Cpk ≥ 1.67	0/30
PD	JESD22-B100	Per case outline	Cpk > 1.67	0/60
SBS	AEC-Q100-010	Solder Ball Shear	Cpk > 1.67	0/15

Electrical Characteristics Summary:

There is no change in electrical parameters.

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
NCP110AFCT060T2G	SCY99217AFCT2925T2G
NCP110AFCT080T2G	SCY99217AFCT2925T2G
NCP110AFCT085T2G	SCY99217AFCT2925T2G
NCP110AFCT100T2G	SCY99217AFCT2925T2G
NCP110AFCT105T2G	SCY99217AFCT2925T2G
NCP110AFCT110T2G	SCY99217AFCT2925T2G
NCP110AFCT120T2G	SCY99217AFCT2925T2G
NCP110AFCT180T2G	SCY99217AFCT2925T2G
NCP110AFCT280T2G	SCY99217AFCT2925T2G



NCP136AFCRC040T2G	SCY99247CFCS120T2G
NCP136AFCRC080T2G	SCY99247CFCS120T2G
NCP136AFCT080T2G	SCY99247CFCS120T2G
NCP136AFCT088T2G	SCY99247CFCS120T2G
NCP136AFCT105T2G	SCY99247CFCS120T2G
NCP136AFCT110T2G	SCY99247CFCS120T2G
NCP136AFCT120T2G	SCY99247CFCS120T2G
NCP136BFCT080T2G	SCY99247CFCS120T2G
NCP136CFCT120T2G	SCY99247CFCS120T2G
NCP137AFCT105T2G	SCY99247CFCS120T2G
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NCP137AFCTADJT2G	SCY99247CFCS120T2G
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NCP139AFCT05ADJT2G	SCY99247CFCS120T2G
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NCP139AFCT180T2G	SCY99247CFCS120T2G
NCP139AFCTC05ADJT2G	SCY99247CFCS120T2G
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NCP148AFCT180T2G	SCY99217AFCT2925T2G
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NCP156ABFCT120280T2G	SCY99247CFCS120T2G
NCP156BBFCT120180T2G	SCY99247CFCS120T2G
NCP160AFCS180T2G	SCY99217AFCT2925T2G
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NCP160BFCS2925T2G	SCY99217AFCT2925T2G
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NCP161AFCT350T2G	SCY99217AFCT2925T2G
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NCP167AFCTC350T2G	SCY99217AFCT2925T2G
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NCS20282FCTTAG	SCY99247CFCS120T2G

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# : FPCN23831X

発行日: 12 Feb 2021

変更件名:	JCAP WLCSP 組立に旭化成の BL301 ポリイミド材料を追加	
初回出荷予定日:	21 May 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 < Marek.Haluska@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:	最寄りのオン・セミコンダクター営業所または < Vladislav.Hrachovec@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:	影響を受ける製品は日付コードにより追跡可能です。	
変更カテゴリ:	組立の変更	
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:	
なし	JCAP, China	
説明および目的:		
<p>オン・セミコンダクターは、JCAP 組立拠点において旭化成の BL301 による代替のポリイミド材料 (再パッシベーションレイヤー) を追加することをお知らせいたします。</p> <p>これはポリイミド材料を代替するだけであり、本変更によって WLCSP パッケージ構造またはポリイミドの厚さに変更は生じません。この代替材料による電気的パラメータまたは製品マーキングの変更はありません。</p> <p>ポリイミドの追加は、影響を受ける部品の一覧 (下記) に示すすべての製品、そして今後この拠点でリリースされる製品に適用されます。</p> <p>本 FPCN の発効日から、どちらのパッシベーション材料も製造時に使用することができます。引き続き完全に追跡可能であり、一つのロット内で材料が混在することはありません。</p>		
	変更前のポリイミドレイヤー	変更後のポリイミドレイヤー
PI レイヤー名	HD4100	HD4100 または BL301
サプライヤ名	HD マイクロシステムズ	HD マイクロシステムズまたは旭化成



信頼性データの要約:

デバイス名: SCY99247CFCS120T2GRMS : S70982, S70983, S70984パッケージ: WLCSP-6 567XZ

テスト	仕様	条件	間隔	結果
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	3x reflow	0/480
TC	JESD22-A104	Ta= -40°C to +125°C	850 cyc	0/160
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/160
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/160
ED	ON Data Sheet	Test @ Cold & Room & Hot	Cpk ≥ 1.67	0/60
PD	JESD22-B100	Per case outline	Cpk > 1.67	0/60
SBS	AEC-Q100-010	Solder Ball Shear	Cpk > 1.67	0/15

デバイス名: SCY99217AFCT2925T2GRMS : S70985, S70986, S70987パッケージ: WLCSP-4 567VS

テスト	仕様	条件	間隔	結果
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	3x reflow	0/480
TC	JESD22-A104	Ta= -40°C to +125°C	850 cyc	0/160
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/160
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/160
ED	ON Data Sheet	Test @ Cold & Room & Hot	Cpk ≥ 1.67	0/30
PD	JESD22-B100	Per case outline	Cpk > 1.67	0/60
SBS	AEC-Q100-010	Solder Ball Shear	Cpk > 1.67	0/15

電気的特性の要約:

電気的パラメータに変更はありません。

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
NCP110AFCT060T2G	SCY99217AFCT2925T2G
NCP110AFCT080T2G	SCY99217AFCT2925T2G
NCP110AFCT085T2G	SCY99217AFCT2925T2G
NCP110AFCT100T2G	SCY99217AFCT2925T2G
NCP110AFCT105T2G	SCY99217AFCT2925T2G
NCP110AFCT110T2G	SCY99217AFCT2925T2G
NCP110AFCT120T2G	SCY99217AFCT2925T2G
NCP110AFCT180T2G	SCY99217AFCT2925T2G
NCP110AFCT280T2G	SCY99217AFCT2925T2G



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文書番号# : FPCN23831X

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NCP136AFRC040T2G	SCY99247CFCS120T2G
NCP136AFRC080T2G	SCY99247CFCS120T2G
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NCP136AFCT088T2G	SCY99247CFCS120T2G
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NCP139AFCT180T2G	SCY99247CFCS120T2G
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NCP148AFCT250T2G	SCY99217AFCT2925T2G
NCP148AFCT260T2G	SCY99217AFCT2925T2G
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NCP148AFCT280T2G	SCY99217AFCT2925T2G
NCP148AFCT285T2G	SCY99217AFCT2925T2G
NCP156AAFCT105280T2G	SCY99247CFCS120T2G
NCP156AAFCT120280T2G	SCY99247CFCS120T2G



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NCP156ABFCT100280T2G	SCY99247CFCS120T2G
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NCP156BBFCT120180T2G	SCY99247CFCS120T2G
NCP160AFCS180T2G	SCY99217AFCT2925T2G
NCP160AFCS250T2G	SCY99217AFCT2925T2G
NCP160AFCS270T2G	SCY99217AFCT2925T2G
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NCP160AFCS2925T2G	SCY99217AFCT2925T2G
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NCP160AFCS320T2G	SCY99217AFCT2925T2G
NCP160AFCS330T2G	SCY99217AFCT2925T2G
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NCP160AFCS370T2G	SCY99217AFCT2925T2G
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NCP160AFCS514T2G	SCY99217AFCT2925T2G
NCP160AFCS280T2G	SCY99217AFCT2925T2G
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NCP160AFCT250T2G	SCY99217AFCT2925T2G
NCP160AFCT280T2G	SCY99217AFCT2925T2G
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NCP160AFCT514T2G	SCY99217AFCT2925T2G
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NCP160BFCS285T2G	SCY99217AFCT2925T2G
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NCP161AFCT180T2G	SCY99217AFCT2925T2G
NCP161AFCT185T2G	SCY99217AFCT2925T2G
NCP161AFCT250T2G	SCY99217AFCT2925T2G
NCP161AFCT280T2G	SCY99217AFCT2925T2G



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NCP161AFCT350T2G	SCY99217AFCT2925T2G
NCP161AFCT450T2G	SCY99217AFCT2925T2G
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NCP161BFCT514T2G	SCY99217AFCT2925T2G
NCP163AFCS120T2G	SCY99217AFCT2925T2G
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NCP163AFCS250T2G	SCY99217AFCT2925T2G
NCP163AFCS260T2G	SCY99217AFCT2925T2G
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NCP163AFCS280T2G	SCY99217AFCT2925T2G
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NCP163AFCS2925T2G	SCY99217AFCT2925T2G
NCP163AFCT120T2G	SCY99217AFCT2925T2G
NCP163AFCT180T2G	SCY99217AFCT2925T2G
NCP163AFCT250T2G	SCY99217AFCT2925T2G
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NCP163BFCT180T2G	SCY99217AFCT2925T2G
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NCP167AFCT295T2G	SCY99217AFCT2925T2G
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NCP167AFCTC350T2G	SCY99217AFCT2925T2G
NCP167BFCT330T2G	SCY99217AFCT2925T2G
NCP59744FCTCADJT2G	SCY99247CFCS120T2G
NCP59771AFRCADJT2G	SCY99247CFCS120T2G
NCS20282FCTTAG	SCY99247CFCS120T2G



Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCP110AFCT060T2G		SCY99217AFCT2925T2G		
NCP136AFCT080T2G		SCY99247CFCS120T2G		
NCP136AFCT105T2G		SCY99247CFCS120T2G		
NCP136AFCT110T2G		SCY99247CFCS120T2G		
NCP136AFCT120T2G		SCY99247CFCS120T2G		
NCP136BFCT080T2G		SCY99247CFCS120T2G		
NCP136CFCT120T2G		SCY99247CFCS120T2G		
NCP137AFCT110T2G		SCY99247CFCS120T2G		
NCP137AFCTADJT2G		SCY99247CFCS120T2G		
NCP137AFCTC110T2G		SCY99247CFCS120T2G		
NCP137AFCTCADJT2G		SCY99247CFCS120T2G		
NCP137BFCTADJT2G		SCY99247CFCS120T2G		
NCP139AFCT06ADJT2G		SCY99247CFCS120T2G		
NCP139AFCT105T2G		SCY99247CFCS120T2G		
NCP139AFCT110T2G		SCY99247CFCS120T2G		
NCP139AFCT180T2G		SCY99247CFCS120T2G		
NCP139AFCTC110T2G		SCY99247CFCS120T2G		
NCP110AFCT100T2G		SCY99217AFCT2925T2G		
NCP148AFCT250T2G		SCY99217AFCT2925T2G		
NCP148AFCT180T2G		SCY99217AFCT2925T2G		
NCP148AFCT280T2G		SCY99217AFCT2925T2G		
NCP148AFCT270T2G		SCY99217AFCT2925T2G		
NCP156ABFCT100280T2G		SCY99247CFCS120T2G		
NCP148AFCT285T2G		SCY99217AFCT2925T2G		
NCP156AAFCT105280T2G		SCY99247CFCS120T2G		
NCP156AAFCT120280T2G		SCY99247CFCS120T2G		
NCP156ABFCT110280T2G		SCY99247CFCS120T2G		
NCP160AFCS180T2G		SCY99217AFCT2925T2G		
NCP160AFCS250T2G		SCY99217AFCT2925T2G		
NCP156ABFCT120280T2G		SCY99247CFCS120T2G		
NCP160AFCS300T2G		SCY99217AFCT2925T2G		
NCP160AFCS330T2G		SCY99217AFCT2925T2G		
NCP160AFCS320T2G		SCY99217AFCT2925T2G		
NCP160AFCT300T2G		SCY99217AFCT2925T2G		
NCP160AFCT180T2G		SCY99217AFCT2925T2G		
NCP160BFCS330T2G		SCY99217AFCT2925T2G		
NCP160AFCT330T2G		SCY99217AFCT2925T2G		
NCP160BFCT210T2G		SCY99217AFCT2925T2G		
NCP160AFCT350T2G		SCY99217AFCT2925T2G		
NCP161AFCS300T2G		SCY99217AFCT2925T2G		
NCP161AFCS330T2G		SCY99217AFCT2925T2G		
NCP161AFCT180T2G		SCY99217AFCT2925T2G		



Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCP161AFCS514T2G		SCY99217AFCT2925T2G		
NCP161AFCT280T2G		SCY99217AFCT2925T2G		
NCP161AFCT300T2G		SCY99217AFCT2925T2G		
NCP161AFCT330T2G		SCY99217AFCT2925T2G		
NCP161BFCS180T2G		SCY99217AFCT2925T2G		
NCP161AFCT350T2G		SCY99217AFCT2925T2G		
NCP161BFCS280T2G		SCY99217AFCT2925T2G		
NCP161BFCS330T2G		SCY99217AFCT2925T2G		
NCP161BFCS350T2G		SCY99217AFCT2925T2G		
NCP161BFCT180T2G		SCY99217AFCT2925T2G		
NCP161BFCT280T2G		SCY99217AFCT2925T2G		
NCP161BFCS300T2G		SCY99217AFCT2925T2G		
NCP163AFCS180T2G		SCY99217AFCT2925T2G		
NCP161BFCT330T2G		SCY99217AFCT2925T2G		
NCP163AFCS280T2G		SCY99217AFCT2925T2G		
NCP163AFCT280T2G		SCY99217AFCT2925T2G		
NCP163AFCT330T2G		SCY99217AFCT2925T2G		
NCP163AFCT120T2G		SCY99217AFCT2925T2G		
NCP167AFCT180T2G		SCY99217AFCT2925T2G		
NCP167AFCT330T2G		SCY99217AFCT2925T2G		
NCP167AFCT285T2G		SCY99217AFCT2925T2G		
NCP167BFCT330T2G		SCY99217AFCT2925T2G		