



<b>Title of Change:</b>	Qualification of nonconductive die attach epoxy ABLESTIK 8900NC in TSOP5, TSOP6, US8, SC82 and SOT23A devices as an alternative to the current non-conductive epoxy Hitachi EN4370K3 due to end of life.	
<b>Proposed first ship date:</b>	14 May 2019	
<b>Contact information:</b>	Contact your local ON Semiconductor Sales Office or <pcn.support@onsemi.com>	
<b>Samples:</b>	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.	
<b>Additional Reliability Data:</b>	Contact your local ON Semiconductor Sales Office or <MohdHairwan.MdNor@onsemi.com>	
<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 <PCN.Support@onsemi.com>	
<b>Change Part Identification:</b>	Materials assembly with new material will be identified with date code.	
<b>Change Category:</b>	<input type="checkbox"/> Wafer Fab Change <input checked="" type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input type="checkbox"/> Other _____	
<b>Change Sub-Category(s):</b>	<input type="checkbox"/> Manufacturing Site Addition <input checked="" type="checkbox"/> Material Change <input type="checkbox"/> Datasheet/Product Doc change <input type="checkbox"/> Manufacturing Site Transfer <input type="checkbox"/> Product specific change <input type="checkbox"/> Shipping/Packaging/Marking <input type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Other: _____	
<b>Sites Affected:</b>	ON Semiconductor Sites: ON Seremban, Malaysia	External Foundry/Subcon Sites: None
<b>Description and Purpose:</b>		
<p>ON Semiconductor would like to inform its customers of the qualification of non-conductive die attach epoxy Ablestik 8900NC for products listed in this Final Product Change Notification (FPCN). This epoxy will replace the current non-conductive die attach epoxy Hitachi EN4370K3 due to end of life. At the end of the FPCN approval cycle, these products will be using epoxy Ablestik 8900NC as the die attach epoxy Hitachi EN4370K3 may no longer available.</p> <p>No change for test.</p> <p>For assembly, BOM change associated with this FPCN is shown here.</p>		
	<b>Before Change Description</b>	<b>After Change Description</b>
Die Attach	Non-conductive epoxy Hitachi EN4370K3	Non-conductive epoxy Ablestik 8900NC
There is no product marking change as a result of this change		



## Reliability Data Summary:

QV DEVICE NAME : NLV7SB3257DTT1G

RMS S48908

PACKAGE SC82

Test	Specification	Condition	Interval	Results
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/252

QV DEVICE NAME : NCV551SN30T1G

RMS S48691

PACKAGE TSOP5

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
PTC	JESD22-A105	Ta=-40°C to +125°C	1000 cyc	0/252
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/252
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/756
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

QV DEVICE NAME : NCS2002SN1T1G

RMS S48812

PACKAGE TSOP6

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/252
AC	JESD22-A118	121°C, 100% RH, 15psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/756
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

QV DEVICE NAME : NLV7WBD3125USG

RMS S48814

PACKAGE US8

Test	Specification	Condition	Interval	Results
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/252



QV DEVICE NAME : N24C64UVTG

RMS S49777

PACKAGE US8

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/252
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/756
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

**Electrical Characteristic 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
7SB3125DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
7SB3126DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
7SB3257DTT1G	NCS2002SN1T1G
7SB3257DTT2G	NCS2002SN1T1G
7SB384DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
7SB385DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1G125DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1G126DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1G132DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1G135DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1GT00DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1GT02DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
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M74VHC1GT125DT1G	NCV551SN30T1G & NLV7SB3257DTT1G
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MC74HC1G00DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
MC74HC1G02DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
MC74HC1G04DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
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MC74HC1G14DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
MC74HC1G14DTT1GH	NCV551SN30T1G & NLV7SB3257DTT1G
MC74HC1G32DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
MC74HC1GU04DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G00DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G01DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
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MC74VHC1G50DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G86DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G86DTT1H	NCV551SN30T1G & NLV7SB3257DTT1G
N24C02UDTG	NLV7WBD3125USG & N24C64UVTG
N24C04UDTG	NLV7WBD3125USG & N24C64UVTG
N24C08UDTG	NLV7WBD3125USG & N24C64UVTG
N24C16UDTG	NLV7WBD3125USG & N24C64UVTG
N24C32UDTG	NLV7WBD3125USG & N24C64UVTG
N24C64UDTG	NLV7WBD3125USG & N24C64UVTG
NL17SZ125DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
NL17SZ126DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G



NL17SZ74USGH	NLV7WBD3125USG & N24C64UVTG
NL17VHC1G07DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
NL27WZ00USH	NLV7WBD3125USG & N24C64UVTG
NL27WZ02USGH	NLV7WBD3125USG & N24C64UVTG
NL27WZ04DTT1G	NCS2002SN1T1G
NL27WZ06DTT1G	NCS2002SN1T1G
NL27WZ07DTT1G	NCS2002SN1T1G
NL27WZ125USGH	NLV7WBD3125USG & N24C64UVTG
NL27WZ14DTT1G	NCS2002SN1T1G
NL27WZ16DTT1G	NCS2002SN1T1G
NL27WZ32US	NLV7WBD3125USG & N24C64UVTG
NL27WZ32USGH	NLV7WBD3125USG & N24C64UVTG
NL27WZU04DTT1G	NCS2002SN1T1G
NLVVHC1G00DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
NLVVHC1G14DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G

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# : FPCN22523X

発行日 : 07 February 2019

変更件名:	製造中止となる現行の非導電性エポキシ Hitachi EN4370K3 の代替として、TSOP5、TSOP6、US8、SC82、および SOT23A デバイスにおいて非導電性エポキシダイ接着剤 ABLESTIK 8900NC を認定。							
初回出荷予定日:	14 May 2019							
連絡先情報:	現地のオン・セミコンダクター営業所または <pcn.support@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。							
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> 宛てをお願いします。							
変更部品の識別:	新たな材料で組み立てられた製品は日付コードで識別されます。							
変更カテゴリ:	<input type="checkbox"/> ウェハファブの変更 <input checked="" type="checkbox"/> アセンブリの変更 <input type="checkbox"/> 試験の変更 <input type="checkbox"/> その他 _____							
変更サブカテゴリ:	<input type="checkbox"/> 製造拠点の追加 <input checked="" type="checkbox"/> 材料の変更 <input type="checkbox"/> データシート/製品資料の変更 <input type="checkbox"/> 製造拠点の移転 <input type="checkbox"/> 製品仕様の変更 <input type="checkbox"/> 出荷/パッケージング/表記 <input type="checkbox"/> 製造プロセスの変更 <input type="checkbox"/> その他: _____							
影響を受ける拠点:	オン・セミコンダクター拠点: ON Seremban, Malaysia	外部製造工場 / 下請業者拠点: なし						
説明および目的:	<p>オン・セミコンダクターは、この最終製品変更通知 (FPCN) に記載されている製品に対して、非導電性エポキシダイ接着剤 Ablestik 8900NC を認定したことをお客様にお知らせします。エポキシは、現行の非導電性エポキシダイ接着剤 Hitachi EN4370K3 の製造中止に伴い、それに置き換わります。エポキシダイ接着剤 Hitachi EN4370K3 はもはや入手困難なため、FPCN が承認された段階で対象製品はエポキシ Ablestik 8900NC を使用します。</p> <p>テストの変更はありません。</p> <p>組み立てにおける、本 FPCN に関連する BOM の変更を以下に示します。</p> <table border="1" data-bbox="131 1440 1511 1520"> <thead> <tr> <th></th> <th>変更前の表記</th> <th>変更後の表記</th> </tr> </thead> <tbody> <tr> <td>ダイ接着剤</td> <td>非導電性エポキシ Hitachi EN4370K3</td> <td>非導電性エポキシ Ablestik 8900NC</td> </tr> </tbody> </table> <p>今回の変更に伴う製品表示の変更はありません。</p>			変更前の表記	変更後の表記	ダイ接着剤	非導電性エポキシ Hitachi EN4370K3	非導電性エポキシ Ablestik 8900NC
	変更前の表記	変更後の表記						
ダイ接着剤	非導電性エポキシ Hitachi EN4370K3	非導電性エポキシ Ablestik 8900NC						



## 信頼性データの要約:

デバイス名: NLV7SB3257DTT1G

RMS: S48908

パッケージ: SC82

テスト	仕様	条件	間隔	結果
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/252

デバイス名: NCV551SN30T1G

RMS S48691

パッケージ: TSOP5

テスト	仕様	条件	間隔	結果
HTSL	JESD22-A103	Ta = 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/252
PTC	JESD22-A105	Ta = -40°C to +125°C	1000 cyc	0/252
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/252
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/756
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

デバイス名: NCS2002SN1T1G

RMS S48812

パッケージ: TSOP6

テスト	仕様	条件	間隔	結果
HTSL	JESD22-A103	Ta = 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/252
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/252
AC	JESD22-A118	121°C, 100% RH, 15psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/756
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

デバイス名: NLV7WBD3125USG

RMS S48814

パッケージ: US8

テスト	仕様	条件	間隔	結果
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/252





デバイス名: N24C64UVTG

RMS S49777

パッケージ: US8

テスト	仕様	条件	間隔	結果
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/252
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/756
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

## 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
7SB3125DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
7SB3126DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
7SB3257DTT1G	NCS2002SN1T1G
7SB3257DTT2G	NCS2002SN1T1G
7SB384DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
7SB385DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1G125DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1G126DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1G132DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1G135DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
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M74VHC1GT04DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
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M74VHC1GT32DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1GT50DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G



## 最終製品 / プロセス変更通知

文書番号# : FPCN22523X

発行日 : 07 February 2019

M74VHC1GT86DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1GU04DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
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N24C16UDTG	NLV7WBD3125USG & N24C64UVTG
N24C32UDTG	NLV7WBD3125USG & N24C64UVTG
N24C64UDTG	NLV7WBD3125USG & N24C64UVTG
NL17SZ125DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
NL17SZ126DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
NL17SZ74USGH	NLV7WBD3125USG & N24C64UVTG
NL17VHC1G07DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
NL27WZ00USH	NLV7WBD3125USG & N24C64UVTG



## 最終製品 / プロセス変更通知

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NL27WZ02USGH	NLV7WBD3125USG & N24C64UVTG
NL27WZ04DTT1G	NCS2002SN1T1G
NL27WZ06DTT1G	NCS2002SN1T1G
NL27WZ07DTT1G	NCS2002SN1T1G
NL27WZ125USGH	NLV7WBD3125USG & N24C64UVTG
NL27WZ14DTT1G	NCS2002SN1T1G
NL27WZ16DTT1G	NCS2002SN1T1G
NL27WZ32US	NLV7WBD3125USG & N24C64UVTG
NL27WZ32USGH	NLV7WBD3125USG & N24C64UVTG
NL27WZU04DTT1G	NCS2002SN1T1G
NLVVHC1G00DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G
NLVVHC1G14DTT1G	NCV551SN30T1G & NLV7SB3257DTT1G

**Appendix A: Changed Products**

D

Product	Customer Part Number	Qualification Vehicle
7SB3125DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
7SB3126DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
7SB3257DTT1G		NCS2002SN1T1G
7SB3257DTT2G		NCS2002SN1T1G
7SB384DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
7SB385DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1G125DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1G126DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1G132DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1G135DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1GT00DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1GT02DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1GT04DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1GT08DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1GT125DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1GT126DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1GT14DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1GT32DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1GT50DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1GT86DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
M74VHC1GU04DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74HC1G00DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74HC1G02DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74HC1G04DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74HC1G08DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74HC1G14DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74HC1G32DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74HC1GU04DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G00DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G01DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G02DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G03DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G04DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G05DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G07DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G08DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G09DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G14DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G32DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G50DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
MC74VHC1G86DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
N24C02UDTG		NLV7WBD3125USG & N24C64UVTG
NL17SZ125DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
NL17VHC1G07DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G
NL27WZ04DTT1G		NCS2002SN1T1G
NL27WZ06DTT1G		NCS2002SN1T1G
NL27WZ07DTT1G		NCS2002SN1T1G
NL27WZ14DTT1G		NCS2002SN1T1G
NL27WZ16DTT1G		NCS2002SN1T1G
NL27WZU04DTT1G		NCS2002SN1T1G
NLVVHC1G14DTT1G		NCV551SN30T1G & NLV7SB3257DTT1G