



# Final Product/Process Change Notification

Document #: FPCN23416X

Issue Date: 21 Sep 2020

<b>Title of Change:</b>	Qualification of SOT23A & SC70 (ONC25 Wafer Technology) – 0.8 mils Au to Cu Wire.	
<b>Proposed First Ship date:</b>	28 Dec 2020 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:Jireh.Dulla@onsemi.com">Jireh.Dulla@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:Daniel.Ong@onsemi.com">Daniel.Ong@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>	Production 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>	
ON Semiconductor Seremban, Malaysia	None	
<b>Description and Purpose:</b>		
	<b>Before Change Description</b>	<b>After Change Description</b>
Lead Frame	e.g., LGIC Lead frame with E64T material	e.g., ALS Lead frame with C194 material for better characteristic



**Reliability Data Summary:**

**QV DEVICE NAME: NCP803SN293T1G**  
**RMS: 63696**  
**PACKAGE: SOT-23**

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
TC	JESD22-A104	Ta= -65°C to +150°C, mount on board	500 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	-	0/693
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/90
SD	JSTD002	Ta = 245C, 5 sec	-	0/45

**QV DEVICE NAME: MAX803SQ293T1G**  
**RMS: 63698**  
**PACKAGE: SC-70**

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
TC	JESD22-A104	Ta= -65°C to +150°C, mount on board	500 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	-	0/693
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/90
SD	JSTD002	Ta = 245C, 5 sec	-	0/45

**Electrical Characteristics Summary:**

Electrical characteristics are comparable with the control.

**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
MAX809HTRG	NCP803SN293T1G
MAX809JTRG	NA



MAX809LTRG	NA
MAX809MTRG	NA
MAX809MTRGH	NA
MAX809RTRG	NA
MAX809SN120T1G	NA
MAX809SN160T1G	NA
MAX809SN232T1G	NA
MAX809SN293D1T1G	NA
MAX809SN293D2T1G	NA
MAX809SN293D3T1G	NA
MAX809SN490T1G	NA
MAX809STRG	NA
MAX809STRGH	NA
MAX809TTRG	NA
MAX810LTRG	NA
MAX810MTRG	NA
MAX810RTRG	NA
MAX810SN120T1G	NA
MAX810SN293D1T1G	NA
MAX810SN293D2T1G	NA
MAX810SN293D3T1G	NA
MAX810STRG	NA
MAX810TTRG	NA
NCP803SN120T1G	NA
NCP803SN160T1G	NA
NCP803SN232T1G	NA
NCP803SN263T1G	NA
NCP803SN293D1T1G	NA
NCP803SN293D2T1G	NA
NCP803SN293D3T1G	NA
NCP803SN293T1G	NA
NCP803SN293T3G	NA
NCP803SN308T1G	NA
NCP803SN400T1G	NA



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NCP803SN438T1G	NA
NCP803SN463D1T1G	NA
NCP803SN463T1G	NA
MAX803SQ120T1G	MAX803SQ293T1G
MAX803SQ263T1G	NA
MAX803SQ293D1T1G	NA
MAX803SQ293D2T1G	NA
MAX803SQ293D3T1G	NA
MAX803SQ293T1G	NA
MAX803SQ308D2T1G	NA
MAX803SQ438T1G	NA
MAX809SQ232T1G	NA
MAX809SQ293D2T1G	NA
MAX809SQ400T1G	NA
MAX809SQ438T1G	NA
MAX809SQ463T1G	NA
MAX810SQ120T1G	NA
MAX810SQ263T1G	NA
MAX810SQ293D1T1G	NA
MAX810SQ293D3T1G	NA
MAX810SQ438T1G	NA
MAX810SQ463T1G	NA
MAX803SQ308T1G	NA
MAX803SQ463T1G	NA
MAX809SQ120T1G	NA
MAX809SQ263T1G	NA
MAX809SQ293D1T1G	NA
MAX809SQ293D3T1G	NA
MAX809SQ293T1G	NA
MAX809SQ308T1G	NA
MAX810SQ293D2T1G	NA
MAX810SQ293T1G	NA

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# : FPCN23416X

発行日: 21 Sep 2020

変更件名:	SOT23A および SC70 (ONC25 ウェハーテクノロジー) における 0.8 mils ワイヤの 金から銅への変更の認定	
初回出荷予定日:	28 Dec 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:Jireh.Dulla@onsemi.com">Jireh.Dulla@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:Daniel.Ong@onsemi.com">Daniel.Ong@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> 宛てにお願いします。	
変更部品の識別:	製品マーキング	
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:	
ON Semiconductor Seremban, Malaysia	無し	
説明および目的:		
	変更前の表記	変更後の表記
ボンドワイヤー	0.8mils Heraeus Au Wire	0.8mils Tanaka Bare Cu Wire



## 信頼性データの要約:

デバイス名: NCP803SN293T1G

RMS: 63696

パッケージ: SOT-23

テスト	仕様	条件	間隔	結果
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
TC	JESD22-A104	Ta= -65°C to +150°C, mount on board	500 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	-	0/693
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/90
SD	JSTD002	Ta = 245C, 5 sec	-	0/45

デバイス名: MAX803SQ293T1G

RMS: 63698

パッケージ: SC-70

テスト	仕様	条件	間隔	結果
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
TC	JESD22-A104	Ta= -65°C to +150°C, mount on board	500 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	-	0/693
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/90
SD	JSTD002	Ta = 245C, 5 sec	-	0/45

## 電気的特性の要約:

電気的特性はコントロールと同等です。

## 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
MAX809HTRG	NCP803SN293T1G
MAX809JTRG	NA



MAX809LTRG	NA
MAX809MTRG	NA
MAX809MTRGH	NA
MAX809RTRG	NA
MAX809SN120T1G	NA
MAX809SN160T1G	NA
MAX809SN232T1G	NA
MAX809SN293D1T1G	NA
MAX809SN293D2T1G	NA
MAX809SN293D3T1G	NA
MAX809SN490T1G	NA
MAX809STRG	NA
MAX809STRGH	NA
MAX809TTRG	NA
MAX810LTRG	NA
MAX810MTRG	NA
MAX810RTRG	NA
MAX810SN120T1G	NA
MAX810SN293D1T1G	NA
MAX810SN293D2T1G	NA
MAX810SN293D3T1G	NA
MAX810STRG	NA
MAX810TTRG	NA
NCP803SN120T1G	NA
NCP803SN160T1G	NA
NCP803SN232T1G	NA
NCP803SN263T1G	NA
NCP803SN293D1T1G	NA
NCP803SN293D2T1G	NA
NCP803SN293D3T1G	NA
NCP803SN293T1G	NA
NCP803SN293T3G	NA
NCP803SN308T1G	NA
NCP803SN400T1G	NA
NCP803SN438T1G	NA
NCP803SN463D1T1G	NA





## 最終製品 / プロセス変更通知

文書番号# : FPCN23416X

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NCP803SN463T1G	NA
MAX803SQ120T1G	MAX803SQ293T1G
MAX803SQ263T1G	NA
MAX803SQ293D1T1G	NA
MAX803SQ293D2T1G	NA
MAX803SQ293D3T1G	NA
MAX803SQ293T1G	NA
MAX803SQ308D2T1G	NA
MAX803SQ308T1G	NA
MAX803SQ438T1G	NA
MAX803SQ463T1G	NA
MAX809SQ120T1G	NA
MAX809SQ232T1G	NA
MAX809SQ263T1G	NA
MAX809SQ293D1T1G	NA
MAX809SQ293D2T1G	NA
MAX809SQ293D3T1G	NA
MAX809SQ293T1G	NA
MAX809SQ308T1G	NA
MAX809SQ400T1G	NA
MAX809SQ438T1G	NA
MAX809SQ463T1G	NA
MAX810SQ120T1G	NA
MAX810SQ263T1G	NA
MAX810SQ293D1T1G	NA
MAX810SQ293D2T1G	NA
MAX810SQ293D3T1G	NA
MAX810SQ293T1G	NA
MAX810SQ438T1G	NA
MAX810SQ463T1G	NA



## Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MAX809HTRG		NCP803SN293T1G		
MAX809JTRG		NA		
MAX809LTRG		NA		
MAX809MTRG		NA		
MAX809RTRG		NA		
MAX809SN120T1G		NA		
MAX809SN160T1G		NA		
MAX809SN232T1G		NA		
MAX809SN293D1T1G		NA		
MAX809SN293D2T1G		NA		
MAX809SN293D3T1G		NA		
MAX809STRG		NA		
MAX809TTRG		NA		
MAX810LTRG		NA		
MAX810MTRG		NA		
MAX810SN120T1G		NA		
MAX810STRG		NA		
MAX810TTRG		NA		
NCP803SN160T1G		NA		
NCP803SN263T1G		NA		
NCP803SN293D1T1G		NA		
NCP803SN293D3T1G		NA		
NCP803SN293T1G		NA		
NCP803SN308T1G		NA		
NCP803SN400T1G		NA		
NCP803SN463T1G		NA		
MAX803SQ120T1G		MAX803SQ293T1G		
MAX803SQ293D1T1G		NA		
MAX803SQ293D2T1G		NA		
MAX809SN490T1G		NA		
MAX810RTRG		NA		
MAX810SN293D1T1G		NA		
MAX810SN293D3T1G		NA		
NCP803SN120T1G		NA		
NCP803SN232T1G		NA		
NCP803SN293D2T1G		NA		
NCP803SN293T3G		NA		
NCP803SN438T1G		NA		
MAX803SQ263T1G		NA		
MAX803SQ293D3T1G		NA		
MAX803SQ308D2T1G		NA		
MAX809SQ232T1G		NA		



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**Appendix A: Changed Products**

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DIKG : DIGI-KEY

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MAX809SQ293D2T1G		NA		
MAX810SQ463T1G		NA		
MAX803SQ308T1G		NA		
MAX803SQ463T1G		NA		
MAX809SQ120T1G		NA		
MAX809SQ263T1G		NA		
MAX809SQ308T1G		NA		
MAX810SQ293D2T1G		NA		
MAX803SQ293T1G		NA		
MAX803SQ438T1G		NA		
MAX809SQ400T1G		NA		
MAX809SQ463T1G		NA		
MAX809SQ293D1T1G		NA		
MAX809SQ293T1G		NA		