



Final Product/Process Change Notification

Document #:FPCN23038X

Issue Date:29 Apr 2020

Title of Change:	ON Semiconductor (Seremban, Malaysia), ICD2PAK 3LD mold compound qualification from G600 to G700HF.	
Proposed First Ship date:	05 Aug 2020 or earlier if approved by customer	
Contact Information:	Contact your local ON Semiconductor Sales Office or AhmadFaris.Dzulkipli@onsemi.com and IgnatiusPillay.FelixAmbrose@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 MohdHairwan.MdNor@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:	There is no product marking change as a result of this change. Changed date code will be advised as requested.	
Change Category:	Assembly Change	
Change Sub-Category(s):	Material Change	
Sites Affected:		
ON Semiconductor Sites	External Foundry/Subcon Sites	
ON Semiconductor Seremban, Malaysia	None	
Description and Purpose:		
Mold compound change from G600 to G700HF for better delamination improvement.		
	Before Change Description	After Change Description
Mold Compound	G600	G700HF
There is no product marking change as a result of this change.		



Reliability Data Summary:

QV DEVICE NAME: MC7805ABD2TG (Analog, Voltage Regulator)

RMS : S63847, S57775

PACKAGE : D2PAK 3LD

Test	Specification	Condition	Interval	Result
HAST	JESD22 A110	130°C/85% RH , ~18.8 psig	192 hrs	0/231
HTSL	JESD22-A103	Ta = 150 °C	2016 hrs	0/231
HTOL	JESD22 A108	TA=125°C	1008 hrs	0/231
TC	JESD22-A104	Ta = -65°C to +150°C	500 cyc	0/231
UHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 245 °C		0/693
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/90
SD	JSTD002	Ta = 245°C, 10 sec		0/45

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
MC7908CD2TG	MC7805ABD2TG
MC7912ACD2TG	MC7805ABD2TG
MC7912BD2TG	MC7805ABD2TG
MC7912BD2TR4G	MC7805ABD2TG
MC7912CD2TG	MC7805ABD2TG
MC7912CD2TR4G	MC7805ABD2TG
MC7915ACD2TG	MC7805ABD2TG
MC7915BD2TR4G	MC7805ABD2TG
LM2931AD2T-5R4G	MC7805ABD2TG
LM2931D2T-5.0G	MC7805ABD2TG



LM2931D2T-5.0R4G	MC7805ABD2TG
MC7915CD2TG	MC7805ABD2TG
MC7915CD2TR4G	MC7805ABD2TG
MC7924CD2TG	MC7805ABD2TG
NCP565D2T12G	MC7805ABD2TG
LM337D2TR4G	MC7805ABD2TG
MC7805ABD2TG	MC7805ABD2TG
MC7805ABD2TR4G	MC7805ABD2TG
MC7805ACD2TG	MC7805ABD2TG
MC7805ACD2TR4G	MC7805ABD2TG
MC7805BD2TG	MC7805ABD2TG
MC7805BD2TR4G	MC7805ABD2TG
MC7805CD2TG	MC7805ABD2TG
MC7805CD2TR4G	MC7805ABD2TG
MC7806BD2TR4G	MC7805ABD2TG
MC7808ABD2TG	MC7805ABD2TG
MC7808ABD2TR4G	MC7805ABD2TG
MC7808BD2TG	MC7805ABD2TG
MC7808CD2TG	MC7805ABD2TG
MC7808CD2TR4G	MC7805ABD2TG
MC7809CD2TG	MC7805ABD2TG
MC7809CD2TR4G	MC7805ABD2TG
MC7812ACD2TG	MC7805ABD2TG
MC7812CD2TG	MC7805ABD2TG
MC7815ABD2TG	MC7805ABD2TG
MC7815BD2TG	MC7805ABD2TG
MC7824BD2TR4G	MC7805ABD2TG
MC7905ACD2TR4G	MC7805ABD2TG
MC7906CD2TG	MC7805ABD2TG
NCP565D2T33G	MC7805ABD2TG
LM317BD2TG	MC7805ABD2TG
LM317BD2TR4G	MC7805ABD2TG
LM317D2TG	MC7805ABD2TG
LM317D2TR4G	MC7805ABD2TG



LM337BD2TG	MC7805ABD2TG
LM337BD2TR4G	MC7805ABD2TG
LM337D2TG	MC7805ABD2TG
MC7812ABD2TG	MC7805ABD2TG
MC7812ABD2TR4G	MC7805ABD2TG
MC7812ACD2TR4G	MC7805ABD2TG
MC7812BD2TG	MC7805ABD2TG
MC7812BD2TR4G	MC7805ABD2TG
MC7812CD2TR4G	MC7805ABD2TG
MC7815ABD2TR4G	MC7805ABD2TG
MC7815ACD2TG	MC7805ABD2TG
MC7815CD2TG	MC7805ABD2TG
MC7815CD2TR4G	MC7805ABD2TG
MC7818CD2TR4G	MC7805ABD2TG
MC7824BD2TG	MC7805ABD2TG
MC7824CD2TR4G	MC7805ABD2TG
MC7905ACD2TG	MC7805ABD2TG
MC7905CD2TG	MC7805ABD2TG
MC7905CD2TR4G	MC7805ABD2TG

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# : FPCN23038X

発行日: 29 Apr 2020

変更件名:	オンセミコンダクター(セレンバン、マレーシア)における ICD2PAK 3LD の G600 から G700HF へのモールドコンパウンド変更認定	
初回出荷予定日:	05 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 AhmadFaris.Dzulkipli@onsemi.com , IgnatiusPillay.FelixAmbrose@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 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 宛てにお願いします。	
部品のマーキング/変更のトレーサビリティ:	この変更の結果として製品マーキングの変更はありません。変更品の日付コードはご依頼によりお知らせします。	
変更カテゴリ: アセンブリの変更		
変更サブカテゴリ: 製造プロセスの変更		
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:		
層間剥離を改善するために、G600 から G700HF へのモールドコンパウンドの変更。		
処理する	変更前の表記	変更後の表記
モールド・コンパウンド	G600	G700HF
この変更の結果としての製品マーキングの変更はありません。		



信頼性データの要約:

デバイス名: MC7805ABD2TG (Analog, Voltage Regulator)

RMS : S63847, S57775

パッケージ: D2PAK 3LD

テスト	仕様	条件	間隔	結果
HAST	JESD22 A110	130°C/85% RH, ~18.8 psig	192 hrs	0/231
HTSL	JESD22-A103	Ta = 150 °C	2016 hrs	0/231
HTOL	JESD22 A108	TA=125°C	1008 hrs	0/231
TC	JESD22-A104	Ta = -65°C to +150°C	500 cyc	0/231
UHASt	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 245 °C		0/693
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/90
SD	JSTD002	Ta = 245°C, 10 sec		0/45

電気的特性の要約:

電気的特性に変更はありません。製品の性能はデータシートの仕様を満たしています。特性データはご要求に応じてご提供いたします。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
MC7908CD2TG	MC7805ABD2TG
MC7912ACD2TG	MC7805ABD2TG
MC7912BD2TG	MC7805ABD2TG
MC7912BD2TR4G	MC7805ABD2TG
MC7912CD2TG	MC7805ABD2TG
MC7912CD2TR4G	MC7805ABD2TG
MC7915ACD2TG	MC7805ABD2TG
MC7915BD2TR4G	MC7805ABD2TG
MC7915CD2TG	MC7805ABD2TG



MC7915CD2TR4G	MC7805ABD2TG
MC7924CD2TG	MC7805ABD2TG
NCP565D2T12G	MC7805ABD2TG
NCP565D2T33G	MC7805ABD2TG
LM2931AD2T-5R4G	MC7805ABD2TG
LM2931D2T-5.0G	MC7805ABD2TG
LM2931D2T-5.0R4G	MC7805ABD2TG
LM317BD2TG	MC7805ABD2TG
LM317BD2TR4G	MC7805ABD2TG
LM317D2TG	MC7805ABD2TG
LM317D2TR4G	MC7805ABD2TG
LM337BD2TG	MC7805ABD2TG
LM337BD2TR4G	MC7805ABD2TG
LM337D2TG	MC7805ABD2TG
LM337D2TR4G	MC7805ABD2TG
MC7805ABD2TG	MC7805ABD2TG
MC7805ABD2TR4G	MC7805ABD2TG
MC7805ACD2TG	MC7805ABD2TG
MC7805ACD2TR4G	MC7805ABD2TG
MC7805BD2TG	MC7805ABD2TG
MC7805BD2TR4G	MC7805ABD2TG
MC7805CD2TG	MC7805ABD2TG
MC7805CD2TR4G	MC7805ABD2TG
MC7806BD2TR4G	MC7805ABD2TG
MC7808ABD2TG	MC7805ABD2TG
MC7808ABD2TR4G	MC7805ABD2TG
MC7808BD2TG	MC7805ABD2TG



MC7808CD2TG	MC7805ABD2TG
MC7808CD2TR4G	MC7805ABD2TG
MC7809CD2TG	MC7805ABD2TG
MC7809CD2TR4G	MC7805ABD2TG
MC7812ABD2TG	MC7805ABD2TG
MC7812ABD2TR4G	MC7805ABD2TG
MC7812ACD2TG	MC7805ABD2TG
MC7812ACD2TR4G	MC7805ABD2TG
MC7812BD2TG	MC7805ABD2TG
MC7812BD2TR4G	MC7805ABD2TG
MC7812CD2TG	MC7805ABD2TG
MC7812CD2TR4G	MC7805ABD2TG
MC7815ABD2TG	MC7805ABD2TG
MC7815ABD2TR4G	MC7805ABD2TG
MC7815ACD2TG	MC7805ABD2TG
MC7815BD2TG	MC7805ABD2TG
MC7815CD2TG	MC7805ABD2TG
MC7815CD2TR4G	MC7805ABD2TG
MC7818CD2TR4G	MC7805ABD2TG
MC7824BD2TG	MC7805ABD2TG
MC7824BD2TR4G	MC7805ABD2TG
MC7824CD2TR4G	MC7805ABD2TG
MC7905ACD2TG	MC7805ABD2TG
MC7905ACD2TR4G	MC7805ABD2TG
MC7905CD2TG	MC7805ABD2TG
MC7905CD2TR4G	MC7805ABD2TG
MC7906CD2TG	MC7805ABD2TG



Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC7908CD2TG		MC7805ABD2TG		
MC7912ACD2TG		MC7805ABD2TG		
MC7912BD2TG		MC7805ABD2TG		
MC7912BD2TR4G		MC7805ABD2TG		
MC7912CD2TG		MC7805ABD2TG		
MC7912CD2TR4G		MC7805ABD2TG		
MC7915ACD2TG		MC7805ABD2TG		
MC7915BD2TR4G		MC7805ABD2TG		
LM2931AD2T-5R4G		MC7805ABD2TG		
LM2931D2T-5.0G		MC7805ABD2TG		
LM2931D2T-5.0R4G		MC7805ABD2TG		
MC7915CD2TG		MC7805ABD2TG		
MC7915CD2TR4G		MC7805ABD2TG		
MC7924CD2TG		MC7805ABD2TG		
NCP565D2T12G		MC7805ABD2TG		
LM337D2TR4G		MC7805ABD2TG		
MC7805ABD2TG		MC7805ABD2TG		
MC7805ABD2TR4G		MC7805ABD2TG		
MC7805ACD2TG		MC7805ABD2TG		
MC7805BD2TG		MC7805ABD2TG		
MC7805BD2TR4G		MC7805ABD2TG		
MC7805CD2TG		MC7805ABD2TG		
MC7805CD2TR4G		MC7805ABD2TG		
MC7806BD2TR4G		MC7805ABD2TG		
MC7808ABD2TG		MC7805ABD2TG		
MC7808ABD2TR4G		MC7805ABD2TG		
MC7808BD2TG		MC7805ABD2TG		
MC7808CD2TG		MC7805ABD2TG		
MC7808CD2TR4G		MC7805ABD2TG		
MC7809CD2TG		MC7805ABD2TG		
MC7809CD2TR4G		MC7805ABD2TG		
MC7812ACD2TG		MC7805ABD2TG		
MC7812CD2TG		MC7805ABD2TG		
MC7815ABD2TG		MC7805ABD2TG		
MC7815BD2TG		MC7805ABD2TG		
MC7824BD2TR4G		MC7805ABD2TG		
MC7805ACD2TR4G		MC7805ABD2TG		
MC7906CD2TG		MC7805ABD2TG		
NCP565D2T33G		MC7805ABD2TG		
LM317BD2TG		MC7805ABD2TG		
MC7905ACD2TR4G		MC7805ABD2TG		
LM317BD2TR4G		MC7805ABD2TG		



Appendix A: Changed Products

DIKG : DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
LM317D2TR4G		MC7805ABD2TG		
LM317D2TG		MC7805ABD2TG		
LM337BD2TR4G		MC7805ABD2TG		
LM337BD2TG		MC7805ABD2TG		
MC7812ABD2TG		MC7805ABD2TG		
LM337D2TG		MC7805ABD2TG		
MC7812ACD2TR4G		MC7805ABD2TG		
MC7812ABD2TR4G		MC7805ABD2TG		
MC7812BD2TR4G		MC7805ABD2TG		
MC7812BD2TG		MC7805ABD2TG		
MC7815ABD2TR4G		MC7805ABD2TG		
MC7812CD2TR4G		MC7805ABD2TG		
MC7815CD2TG		MC7805ABD2TG		
MC7815ACD2TG		MC7805ABD2TG		
MC7818CD2TR4G		MC7805ABD2TG		
MC7815CD2TR4G		MC7805ABD2TG		
MC7824CD2TR4G		MC7805ABD2TG		
MC7824BD2TG		MC7805ABD2TG		
MC7905CD2TG		MC7805ABD2TG		
MC7905ACD2TG		MC7805ABD2TG		
MC7905CD2TR4G		MC7805ABD2TG		