



## Initial Product/Process Change Notification

Document #: IPCN25319X

Issue Date: 16 Aug 2023

<b>Title of Change:</b>	Transfer of Assembly and Test operation of D2PAK-IC-3LD package (Case outline 936-03) from onsemi Seremban, Malaysia to Good-Ark Electronics Co.,Ltd, China
<b>Proposed First Ship date:</b>	01 Oct 2024 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Milos.Dvorak@onsemi.com">Milos.Dvorak@onsemi.com</a>
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office. 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>Type of Notification:</b>	This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact < <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> >
<b>Marking of Parts/ Traceability of Change:</b>	Changed material can be identified by assembly plant code.
<b>Change Category:</b>	Assembly Change, Test Change
<b>Change Sub-Category(s):</b>	Manufacturing Site Transfer, Material Change

### Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
None	Good-Ark, China

### Description and Purpose:

This Initial Notification announces to customers that onsemi plans to transfer Assembly and Test operations of the D2PAK-IC-3LD package (Case Outline 936-03) products from onsemi Seremban, Malaysia, to Good-Ark Electronics Co., Ltd., (Suzhou), China.

	From	To
<b>Assembly / Test Site</b>	onsemi, Seremban, Malaysia	Good-Ark Electronics Co.,Ltd, Suzhou, China
<b>Die Attach</b>	Pb95Sn5	Pb92.5Sn5Ag2.5
<b>Mold Compound</b>	EME G600 G700HF	G700HF

There is no product marking change as a result of this change.



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### Qualification Plan:

QV DEVICE NAME: LM317D2TG

RMS: S88902

PACKAGE: D2PAK 3LD

Test	Specification	Condition	Interval
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs
High Temperature Storage Life	JESD22-A103	Ta= 150°C	2016 hrs
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 245 °C	
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C, mounted form air to air	500 cyc
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
Resistance to Solder Heat	JESD22- B106	Ta = 265°C, 10 sec	
Solderability	JSTD002	Ta = 245°C, 5 sec	
Physical Dimensions	JESD22-B120		

Estimated date for qualification completion: 1 March 2024

### 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
MC7805CD2TR4G	LM317D2TG
MC7812ABD2TR4G	LM317D2TG
MC7812ACD2TR4G	LM317D2TG
MC7812BD2TR4G	LM317D2TG
MC7812CD2TR4G	LM317D2TG
MC7815ABD2TR4G	LM317D2TG
MC7815BD2TR4G	LM317D2TG
MC7815CD2TG	LM317D2TG
MC7815CD2TR4G	LM317D2TG
MC7818CD2TR4G	LM317D2TG
MC7824CD2TR4G	LM317D2TG
MC7905ACD2TR4G	LM317D2TG
MC7912BD2TR4G	LM317D2TG
MC7915ACD2TG	LM317D2TG
MC7915ACD2TR4G	LM317D2TG
MC7915BD2TR4G	LM317D2TG
MC7915CD2TR4G	LM317D2TG



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NCP565D2T33R4G	LM317D2TG
MC7805CD2TG	LM317D2TG
MC7805BD2TR4G	LM317D2TG
MC7805BD2TG	LM317D2TG
MC7805ACD2TR4G	LM317D2TG
MC7805ACD2TG	LM317D2TG
MC7805ABD2TR4G	LM317D2TG
LM337D2TR4G	LM317D2TG
LM337BD2TR4G	LM317D2TG
LM317D2TR4G	LM317D2TG
LM2931AD2T-5R4G	LM317D2TG
LM2931D2T-5.0R4G	LM317D2TG
LM317BD2TG	LM317D2TG
LM317BD2TR4G	LM317D2TG
LM317D2TG	LM317D2TG