



# Final Product/Process Change Notification

Document #: FPCN25064XA

Issue Date: 31 Jul 2023

<b>Title of Change:</b>	TO 3P_Assembly and Test Qualification to Suzhou Goodark Co.Ltd., China for Capacity Expansion
<b>Proposed First Ship date:</b>	03 Nov 2023 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:nor'ain.lotepi@onsemi.com">nor'ain.lotepi@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>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:Harper.Pan@onsemi.com">Harper.Pan@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. onsemi 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>	The traceability of marking will be maintained by assembly plant code , date code and lot code.
<b>Change Category:</b>	Assembly Change, Test Change
<b>Change Sub-Category(s):</b>	Manufacturing Site Transfer

**Sites Affected:**

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

**Description and Purpose:**

This Product Change Notification is to announce qualification of TO3P assembly and test sites at Good-Ark, China.

There are no changes in product electrical performances and specifications.

	Before Change Description	After Change Description
<b>Assembly Site</b>	onsemi Suzhou (ONSZ)	Suzhou Goodark
<b>Test Site</b>	onsemi Suzhou (ONSZ)	Suzhou Goodark
<b>Die attach</b>	PB93.5SN5AG1.5	PB92.5SN5AG2.5

	From	To
<b>Product marking change</b>	Existing Line 1: Internal traceability Line 2 & Line 3: device marking	Corporate marking style Line 1& Line 2: device marking Line 3: Internal traceability (AYWWZZ)

The traceability of marking will be maintained by assembly plant code, date code and lot code.



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**QV DEVICE NAME:** FJA43130TU

**RMS:** U86601, U91216

**PACKAGE:** TO3P

Test	Specification	Condition	Interval	Result
High Temperature Reverse Bias	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs	0/77
High Temperature Storage Life	JESD22-A103	Ta=150°C	1008 hrs	0/77
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/77
Highly Accelerated Stress Test	JESD22-A110	110°C, 85% RH, 18.8psig, bias	264 hrs	0/77
Unbiased Highly Accelerated Stress Test	JESD22-A118	110°C, 85% RH, 18.8psig, unbiased	264 hrs	0/77
Resistance to Solder Heat	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only	end points	0/30
Solderability	JSTD002	Ta = 245°C, 5 sec	end points	0/15
Lead integrity	JESD22-B105	Lead Tension test for 10pcs units. Lead Bending test for 10pcs units. Lead Fatigue test for 10pcs units.	end points	0/30

**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
2SC5242OTU	FJA43130TU
TIP147TU	FJA43130TU
FJA43130TU	FJA43130TU