



## Initial Product/Process Change Notification

Document #: IPCN25400X

Issue Date: 17 May 2023

<b>Title of Change:</b>	Transfer of Assembly and Test operations of TO-264 (POD 340CA), outsource from ONSZ to JCET Suqian
<b>Proposed First Ship date:</b>	31 Mar 2024 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local onsemi Sales Office or JianHao.See@onsemi.com, jeanie.wang@onsemi.com
<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 <PCN.Support@onsemi.com>
<b>Marking of Parts/ Traceability of Change:</b>	Affected products will be identified by date code
<b>Change Category:</b>	Test Change, Assembly Change
<b>Change Sub-Category(s):</b>	Material Change, Manufacturing Site Transfer

### Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
None	JCET, China

### Description and Purpose:

This notification announces to customer the qualification of new assembly and test site of TO 264 packaged (case outline 340CA) products to JCET Semiconductor (Suqian) Co.Ltd., China for capacity expansion.

	Before Change Description	After Change Description
<b>Assembly Site</b>		JCET Semiconductor (Suqian) Co.Ltd
<b>LeadFrame</b>	Bare Cu plated Lead frame	Lead Nickel plated Lead frame
<b>Mold Compound</b>	KTMC1050GFA	EME-E500HA

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



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### Qualification Plan:

**QV DEVICE NAME:** FDL100N50F

**RMS:** 88257

**PACKAGE:** TO264

Test	Specification	Condition	Interval
High Temp Reverse Bias	JESD22-A108	Tj = 150°C, bias = 80% of max rated	1008 hrs
High Temp Gate Bias	JESD22-A108	Ti = 150°C for 1008 hrs, Vgss Bias = 100% of max rated	1008 hrs
High Temp Storage Life	JESD22-A103	Ta = 150°C for 1008 hrs	1008 hrs
Highly Accelerated Stress Test	JESD22-A110	Temp = 130°C, 85% RH, ~ 18.8 psig, bias = 42V	96 hours
Temp Cycling	JESD22-A104	Temp = -55°C to +150°C; for 500 cycles	500 cyc
Unbiased Highly Accelerated Stress Test	JESD22-A118	Temp = 130°C, RH=85%, ~ 18.8 psig	96 hrs
Resistance to Solder Heat	JESD22-B106	Ta=265°C 10 sec dwell B106	End points

**QV DEVICE NAME:** FJL6920TU

**RMS:** 88248

**PACKAGE:** TO264

Test	Specification	Condition	Interval
High Temp Reverse Bias	JESD22-A108	Tj = 150°C, bias = 80% of max rated	1008 hrs
High Temp Storage Life	JESD22-A103	Ta = 150°C for 1008 hrs	1008 hrs
Highly Accelerated Stress Test	JESD22-A110	Temp = 130°C, 85% RH, ~ 18.8 psig, bias = 42V	96 hours
Temp Cycling	JESD22-A104	Temp = -55°C to +150°C; for 1000 cycles	1000 cyc
Unbiased Highly Accelerated Stress Test	JESD22-A118	Temp = 130°C, RH=85%, ~ 18.8 psig	96 hrs
Resistance to Solder Heat	JESD22-B106	Ta=265°C 10 sec dwell B106	End points

Estimated date for qualification completion: 30 November 2023

### 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
FDL100N50F	FDL100N50F
FJL6920TU	FJL6920TU
FJL43150TU	FJL6920TU
FJL42150TU	FJL6920TU
2SC52000TU	FJL6920TU
2SA19430TU	FJL6920TU