



Initial Product/Process Change Notification

Document #: IPCN25400X

Issue Date: 17 May 2023

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

Sites Affected:

onsemi Sites

None

External Foundry/Subcon Sites

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
Assembly Site		JCET Semiconductor (Suqian) Co.Ltd
LeadFrame	Bare Cu plated Lead frame	Lead Nickel plated Lead frame
Mold Compound	KTMC1050GFA	EME-E500HA

	From	To
Product marking change	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 = 130C, 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 = 130C, RH=85%, ~ 18.8 psig	96 hrs
Resistance to Solder Heat	JESD22-B106	Ta=265C 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 = 130C, 85% RH, ~ 18.8 psig, bias = 42V	96 hours
Temp Cycling	JESD22-A104	Temp = -55°C to +150°C; for 1000cycles	1000 cyc
Unbiased Highly Accelerated Stress Test	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96 hrs
Resistance to Solder Heat	JESD22-B106	Ta=265C 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
FJL4315OTU	FJL6920TU
FJL4215OTU	FJL6920TU
2SC5200OTU	FJL6920TU
2SA1943OTU	FJL6920TU

Appendix A: Changed Products

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DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FDL100N50F		FDL100N50F	NA	
FJL6920TU		FJL6920TU	NA	
FJL43150TU		FJL6920TU	NA	
2SC5200OTU		FJL6920TU	NA	
2SA1943OTU		FJL6920TU	NA	
FJL42150TU		FJL6920TU	NA	