



Initial Product/Process Change Notification

Document #: IPCN25061X

Issue Date: 14 Dec 2022

Title of Change:	TO220F-Assembly and Test Qualification to Suzhou Good-Ark Electronics Co., Ltd., China for Capacity Expansion
Proposed First Ship date:	31 Oct 2023 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or 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:	The traceability of marking will be maintained by assembly plant code , date code and lot code.
Change Category:	Test Change, Assembly Change
Change Sub-Category(s):	Manufacturing Site Transfer

Sites Affected:

onsemi Sites

None

External Foundry/Subcon Sites

Good-Ark, China

Description and Purpose:

This Product Change Notification is to announce qualification of TO220F assembly and test sites at Good-Ark, China.

There are no changes in product electrical performances and specifications.

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

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

Appendix A: Changed Products

DIKG: DIGI-KEY (page 1 of 2)

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FJPF13009H1TU		FJPF13009H1TU		
FJPF13007H2TU		FJPF13009H1TU		
FJPF5027OTU		FJPF13009H1TU		
FJPF5021OTU		FJPF13009H1TU		
FJPF3305H2TU		FJPF13009H1TU		
FJPF3305H1TU		FJPF13009H1TU		
BUT11AFTU		FJPF13009H1TU		
NTPF450N80S3Z		FCPF220N80		
NTPF360N80S3Z		FCPF220N80		
NTPF360N65S3H		FCPF220N80		
NTPF250N65S3H		FCPF220N80		
FJPF13007H1TTU		FJPF13009H1TU		
NTPF190N65S3HF		FCPF220N80		
NTPF190N65S3H		FCPF220N80		
FJPF5027RTU		FJPF13009H1TU		
NTPF125N65S3H		FCPF220N80		
NTPF165N65S3H		FCPF220N80		
NTPF095N65S3H		FCPF220N80		
NTPF082N65S3F		FCPF220N80		
NTPF110N65S3HF		FCPF220N80		
FCPF1300N80Z		FCPF220N80		
FCPF4300N80Z		FCPF220N80		
FCPF850N80Z		FCPF220N80		
FCPF600N60Z		FCPF220N80		
FCPF650N80Z		FCPF220N80		
FCPF400N60		FCPF220N80		
FCPF400N80Z		FCPF220N80		
FCPF380N60E		FCPF220N80		
FCPF380N60		FCPF220N80		
FCPF260N60E		FCPF220N80		
FCPF220N80		FCPF220N80		
FCPF290N80		FCPF220N80		
FCPF190N60		FCPF220N80		
FCPF190N60E		FCPF220N80		
FCPF150N65F		FCPF220N80		
FCPF125N65S3		FCPF220N80		
FCPF067N65S3		FCPF220N80		
FCPF099N65S3		FCPF220N80		
FCPF16N60		FCPF220N80		
FCPF20N60		FCPF220N80		
FCPF11N60		FCPF220N80		
FCPF11N60T		FCPF220N80		
FQPF9P25		FQPF9N90CT		
FCPF11N60F		FCPF220N80		
FQPF7P20		FQPF9N90CT		
FQPF9N90CT		FQPF9N90CT		
FQPF3N80C		FQPF9N90CT		
FQPF6N80C		FQPF9N90CT		
FDPF55N06		FDPF10N60ZUT		
FQPF2N80		FQPF9N90CT		
FDPF44N25T		FDPF10N60ZUT		
FDPF51N25		FDPF10N60ZUT		
FDPF33N25T		FDPF10N60ZUT		
FDPF39N20		FDPF10N60ZUT		
FDPF20N50FT		FDPF10N60ZUT		
FDPF20N50T		FDPF10N60ZUT		
FDPF18N50		FDPF10N60ZUT		
FDPF18N50T		FDPF10N60ZUT		
FDPF17N60NT		FDPF10N60ZUT		
FDPF18N20FT		FDPF10N60ZUT		

Appendix A: Changed Products

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DIKG: DIGI-KEY (page 2 of 2)

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FDPF12N60NZ		FDPF10N60ZUT		
FDPF15N65		FDPF10N60ZUT		
FDPF8D5N10C		FDPF10N60ZUT		
FDPF10N60ZUT		FDPF10N60ZUT		
FDPF4D5N10C		FDPF10N60ZUT		
FDPF2D3N10C		FDPF10N60ZUT		
FDPF085N10A		FDPF10N60ZUT		
FDPF045N10A		FDPF10N60ZUT		
FDPF390N15A		FDPF10N60ZUT		
FDPF3860T		FDPF10N60ZUT		
FDPF190N15A		FDPF10N60ZUT		
FDPF320N06L		FDPF10N60ZUT		
FDPF2710T		FDPF10N60ZUT		
FDPF680N10T		FDPF10N60ZUT		
KSD1588YTU		FJPF13009H1TU		
KSD2012GTU		FJPF13009H1TU		
KSB1366GTU		FJPF13009H1TU		
KSD1408YTU		FJPF13009H1TU		
KSB1017YTU		FJPF13009H1TU		
KSB1015YTU		FJPF13009H1TU		
FQPF70N10		FQPF9N90CT		
FJPF13009H2TU		FJPF13009H1TU		
FQPF47P06		FQPF9N90CT		
FCPF7N60		FCPF220N80		
FQPF27N25		FQPF9N90CT		
FQPF27P06		FQPF9N90CT		
FQPF13N50CF		FQPF9N90CT		
FQPF19N20C		FQPF9N90CT		



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Qualification Plan:

QV DEVICE NAME: FDPF10N60ZUT

PACKAGE: TO220F

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Ta=145°C, 80% max rated V	1008hrs
HTGB	JESD22-A108	Ta=150°C, 100% max rated Vgss	1008hrs
HTSL	JESD22-A103	Ta= 150°C	1008hrs
TC	JESD22-A104	Ta= -65°C to +150°C	500cyc
THB	JESD22 A101	85°C, 85% RH, 100V	1008hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs
RSH	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only	
SD	JSTD002	Ta = 245°C, 5 sec	
LI	JESD22-B105		

QV DEVICE NAME: FQPF9N90CT

PACKAGE: TO220F

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs
HTGB	JESD22-A108	Ta=150°C, 100% max rated Vgss	1008 hrs
HTSL	JESD22-A103	Ta= 150 °C	1008hrs
TC	JESD22-A104	Ta= -55°C to +150°C	1000cyc
UHAST	JESD22 A118	130°C, 85% RH, 18.8psig, unbiased	96 rs
HAST	JESD22-A110	110°C, 85% RH, 18.8psig, bias	264 hrs
RSH	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only	
SD	JSTD002	Ta = 245°C, 5 sec	
LI	JESD22-B105		



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QV DEVICE NAME: FCPF220N80

PACKAGE: TO220F

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Ta=150°C, 100% max rated V	1008 hrs
HTGB	JESD22-A108	Ta=150°C, 100% max rated Vgss	1008 hrs
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
TC	JESD22-A104	Ta= -65°C to +150°C	500cyc
UHAST	JESD22 A118	130°C, 85% RH, 18.8psig, unbiased	96hrs
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
RSH	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only	
SD	JSTD002	Ta = 245°C, 5 sec	
LI	JESD22-B105		

QV DEVICE NAME: FJPF13009H1TU

PACKAGE: TO220F

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
TC	JESD22-A104	Ta= -65°C to +150°C	1000cyc
UHAST	JESD22 A118	130°C, 85% RH, 18.8psig, unbiased	96hrs
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
RSH	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only	
SD	JSTD002	Ta = 245°C, 5 sec	
LI	JESD22-B105		



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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
FJPF13009H1TU	FJPF13009H1TU
FJPF13007H2TU	FJPF13009H1TU
FJPF13007H1TTU	FJPF13009H1TU
FJPF5027RTU	FJPF13009H1TU
FJPF5027OTU	FJPF13009H1TU
FJPF5021OTU	FJPF13009H1TU
FJPF3305H2TU	FJPF13009H1TU
FJPF3305H1TU	FJPF13009H1TU
FJPF2145TU	FJPF13009H1TU
BUT11AFTU	FJPF13009H1TU
BDW94CFTU	FJPF13009H1TU
NTPF600N80S3Z	FCPF220N80
NTPF450N80S3Z	FCPF220N80
NTPF360N80S3Z	FCPF220N80
NTPF360N65S3H	FCPF220N80
NTPF250N65S3H	FCPF220N80
NTPF190N65S3HF	FCPF220N80
NTPF190N65S3H	FCPF220N80
NTPF165N65S3H	FCPF220N80
NTPF150N65S3HF	FCPF220N80
NTPF125N65S3H	FCPF220N80
NTPF110N65S3HF	FCPF220N80
NTPF095N65S3H	FCPF220N80
NTPF082N65S3F	FCPF220N80
FCPF4300N80Z	FCPF220N80
FCPF2250N80Z	FCPF220N80
FCPF1300N80Z	FCPF220N80
FCPF850N80Z	FCPF220N80
FCPF650N80Z	FCPF220N80
FCPF600N60Z	FCPF220N80



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FCPF400N80Z	FCPF220N80
FCPF400N60	FCPF220N80
FCPF380N60E	FCPF220N80
FCPF380N60	FCPF220N80
FCPF290N80	FCPF220N80
FCPF260N60E	FCPF220N80
FCPF220N80	FCPF220N80
FCPF190N60E	FCPF220N80
FCPF190N60	FCPF220N80
FCPF150N65F	FCPF220N80
FCPF125N65S3	FCPF220N80
FCPF099N65S3	FCPF220N80
FCPF067N65S3	FCPF220N80
FCPF20N60S	FCPF220N80
FCPF20N60	FCPF220N80
FCPF16N60	FCPF220N80
FCPF11N65	FCPF220N80
FCPF11N60T	FCPF220N80
FCPF11N60F	FCPF220N80
FCPF11N60	FCPF220N80
FQPF9P25	FQPF9N90CT
FQPF9N90CT	FQPF9N90CT
FQPF7P20	FQPF9N90CT
FQPF6N80C	FQPF9N90CT
FQPF3N80C	FQPF9N90CT
FQPF2N80	FQPF9N90CT
FDPF55N06	FDPF10N60ZUT
FDPF51N25	FDPF10N60ZUT
FDPF44N25T	FDPF10N60ZUT
FDPF39N20	FDPF10N60ZUT
FDPF33N25T	FDPF10N60ZUT
FDPF20N50T	FDPF10N60ZUT
FDPF20N50FT	FDPF10N60ZUT
FDPF18N50T	FDPF10N60ZUT



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FDPF18N50	FDPF10N60ZUT
FDPF18N20FT	FDPF10N60ZUT
FDPF17N60NT	FDPF10N60ZUT
FDPF15N65	FDPF10N60ZUT
FDPF12N60NZ	FDPF10N60ZUT
FDPF10N60ZUT	FDPF10N60ZUT
FDPF8D5N10C	FDPF10N60ZUT
FDPF4D5N10C	FDPF10N60ZUT
FDPF2D3N10C	FDPF10N60ZUT
FDPF390N15A	FDPF10N60ZUT
FDPF190N15A	FDPF10N60ZUT
FDPF085N10A	FDPF10N60ZUT
FDPF045N10A	FDPF10N60ZUT
FDPF3860T	FDPF10N60ZUT
FDPF2710T	FDPF10N60ZUT
FDPF320N06L	FDPF10N60ZUT
FDPF680N10T	FDPF10N60ZUT
FCPF20N60T	FCPF220N80
KSD2012GTU	FJPF13009H1TU
KSD1588YTU	FJPF13009H1TU
KSD1408YTU	FJPF13009H1TU
KSB1366GTU	FJPF13009H1TU
KSB1017YTU	FJPF13009H1TU
KSB1015YTU	FJPF13009H1TU
FJPF13009H2TU	FJPF13009H1TU
FCPF400N80Z-AL	FCPF220N80
FCPF400N80Z-01	FCPF220N80
FCPF7N60	FCPF220N80
FQPF70N10	FQPF9N90CT
FQPF47P06	FQPF9N90CT
FQPF27P06	FQPF9N90CT
FQPF27N25	FQPF9N90CT
FQPF19N20C	FQPF9N90CT
FQPF13N50CF	FQPF9N90CT