ON Semiconductor®

Final Product/Process Change Notification

Document # : FPCN22595X
Issue Date: 1 February 2019

Title of Change:	Changing TO220 500692 Selective Ni LF to 500716 bare copper LF.
Proposed first ship date:	7 May 2019
Contact information:	Contact your local ON Semiconductor Sales Office or <Congchao.Yang@onsemi.com>
Samples:	Contact your local ON Semiconductor Sales Office or <PCN.samples@onsemi.com> 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.
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <Frank.Tuan@onsemi.com>.
Type of notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. ON Semiconductor will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <PCN.Support@onsemi.com>
Change Part Identification:	Affected products will be identified with date code
Change Category:	☐ Wafer Fab Change ☑ Assembly Change ☐ Test Change ☐ Other _____

Change Sub-Category(s):

☐ Manufacturing Site Addition
☐ Manufacturing Site Transfer
☐ Manufacturing Process Change
☑ Material Change
☐ Product specific change
☐ Datasheet/Product Doc change
☐ Shipping/Packaging/Marking
☐ Other: _____

Sites Affected:	ON Semiconductor Sites: ON Suzhou, China	External Foundry/Subcon Sites: None

Description and Purpose:

This Final Notification announces to customers the change of TO220 500692 Selective Ni leadframe to 500716 bare copper Leadframe.

	Before Change Description	After Change Description
Leadframe	500692 Lead Post Plating: Ni	500716 Lead Post Plating: Bare Cu

Reliability Data Summary:

QV Device name: FDP51N25, FDP150N10, FCP067N65S3,
Project # (if available/applicable):Changing 500692 Selective Ni to 500716 bare copper LF
RMS:U51597,U52444,52443
PACKAGE: TO220

TEST	SPECIFICATION	TEST CONDITIONS	Interval	Result
Prep		various		0/77
RSH	JESD22-B106	Ta=265C 10 sec dwell B106		0/77
HTSL	JESD22-A103	Ta =150'C for 1008 hrs	1008Hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C; for 1000 cycles	1000 cyc	0/77
H3TRB	JESD22-A101	Temp = 85C, RH=85%, bias = 80% of rated V or 100V max	1008Hrs	0/77
HTRB	JESD22-A108	Tj = Max rate Tj for device, bias = 80% of rated V	1008Hrs	0/77
HTGB	JESD22-A108	Ti = Maximum rated junction temperature for 1008 hrs, Vgss Bias = 100% of max rated	1008Hrs	0/77

Electrical Characteristic 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
FCP190N65S3	FCP067N65S3
FCP125N65S3	FCP067N65S3
FCP067N65S3	FCP067N65S3
FCP360N65S3R0	FCP067N65S3
FCP850N80Z	FCP067N65S3
FCP165N65S3	FCP067N65S3
FCP260N65S3	FCP067N65S3
FCP099N65S3	FCP067N65S3
FCP190N65S3R0	FCP067N65S3
NTP082N65S3F	FCP067N65S3
FCP165N65S3R0	FCP067N65S3
FCP125N65S3R0	FCP067N65S3
FCP600N65S3R0	FCP067N65S3
FCP400N80Z	FCP067N65S3
FCP650N80Z	FCP067N65S3
FCP290N80	FCP067N65S3
FCP220N80	FCP067N65S3

Appendix A: Changed Products

D

Product	Customer Part Number	Qualification Vehicle
FCP067N65S3		FCP067N65S3
FCP099N65S3		FCP067N65S3
FCP125N65S3		FCP067N65S3
FCP125N65S3R0		FCP067N65S3
FCP165N65S3		FCP067N65S3
FCP165N65S3R0		FCP067N65S3
FCP190N65S3		FCP067N65S3
FCP190N65S3R0		FCP067N65S3
FCP220N80		FCP067N65S3
FCP260N65S3		FCP067N65S3
FCP290N80		FCP067N65S3
FCP360N65S3R0		FCP067N65S3
FCP400N80Z		FCP067N65S3
FCP600N65S3R0		FCP067N65S3
FCP650N80Z		FCP067N65S3
FCP850N80Z		FCP067N65S3
NTP082N65S3F		FCP067N65S3