ON Semiconductor®

Initial Product/Process Change Notification

Document #:IPCN23192X
Issue Date:16 Mar 2020

Title of Change:	I2PAK Leadframe change from TSP Selective Ni Plated Lead Post to TSP bare copper Lead Post.
Proposed First Ship date:	16 Sep 2020 or earlier if approved by customer
Contact Information:	Contact your local ON Semiconductor Sales Office or Daisy.Zhi@onsemi.com
PCN Samples Contact:	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. 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:	No update marking of parts and traceability of date code
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:

ON Semiconductor Sites	**External Foundry/Subcon Sites**
ON Semiconductor Suzhou, China	None

Description and Purpose:

	Before Change Description	**After Change Description**
Lead frame	Lead Post: Selective Nickel Plating	Lead post: bare copper

Qualification Plan:

QV DEVICE NAME: FCI7N60/FDI038AN06A0/FJI5603DTU
RMS : Will be available in FPCN
PACKAGE : I2PAK

Test	Specification	Condition	Interval
HTGB	JESD22-A108	Ti=Maximum rated junction temperature for 1008hrs, Vgss Bias=100% of max rated	504hrs 1008 hrs
H3TRB	JESD22-A101	Temp=85°C, RH=85%, bias=80% rated V or 100V mas	504hrs 1008 hrs
TC	JESD22-A104	Ta= -55°C to +150°C	1000cyc
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs
HTSL	JESD22-A103	Ta=Max Ta for device for 1008hrs	Initial Electrical
RSH	JESD22- B106	Ta = 265C, 10 sec dwell B106	
DPA	AEC-Q101-004 Section 4	Post TC,H3TRB,HTGB	
CDPA WP BS	12MSB17722C	Post TC,H3TRB,HTGB	

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
FCI25N60N-F102	FCI7N60
FCI7N60	FCI7N60
FDI150N10	FCI7N60
FQI27N25TU	FCI7N60
FQI4N80TU	FCI7N60
FQI4N90TU	FCI7N60
FQI7N80TU	FCI7N60
FQI8N60CTU	FCI7N60
FDI038AN06A0	FDI038AN06A0
FDI045N10A-F102	FDI038AN06A0
FQI50N06TU	FDI038AN06A0
FJI5603DTU	FJI5603DTU
FQI13N50CTU	FCI7N60
FQI5N60CTU	FCI7N60
FQI7N60TU	FCI7N60
HUF75639S3	FCI7N60