



Title of Change:	I2PAK Leadframe change from TSP Selective Ni Plated Lead Post to TSP bare copper Lead Post.			
Proposed First Ship date:	21 Jan 2021 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.			
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or KunChen.Ge@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			
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:				
Change Leadframe from selective Ni to bare copper for I2PAK.				
	Before Change Description	After Change Description		
LeadFrame	Lead Post: Selective Nickel Plating	Lead post: bare copper		
There is no product marking change as a result of this change.				
Reliability Data Summary:				
QV DEVICE NAME: FCI7N60				
RMS: U590067				
PACKAGE: I2PAK				
Test	Specification	Condition	Interval	Results
H3TRB	JESD22-A101	Ta=85°C, 85% RH, 80% rated or 100V max	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HTSL	JESD22-A103	TA = 150°C for 1008 hours	1008 hrs	0/77
UHASt	JESD22-A118	Temp= +110°C, RH=85%, unbiased	96 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/30
TR	JESD24-3, 2-4, 24-6			0/10
CDPA WP	MIL 883E	Following TC		0/6
CDPA WP	MIL 883E	Following HTSL		0/6
SD	JESD22-B106	a=245C 10 sec dwell		0/15



QV DEVICE NAME: FDI038AN06A0

RMS: U582384

PACKAGE: I2PAK

Test	Specification	Condition	Interval	Results
H3TRB	JESD22-A101	Ta=85°C, 85% RH, 80% rated or 100V max	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HTSL	JESD22-A103	TA = 175°C for 1008 hours	1008 hrs	0/77
UHASt	JESD22-A118	Temp= +110°C, RH=85%, unbiased	96 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/30
TR	JESD24-3, 2-4, 24-6			0/10
CDPA WP	MIL 883E	Following TC		0/6
CDPA WP	MIL 883E	Following HTSL		0/6
SD	JESD22-B106	a=245C 10 sec dwell		0/15

QV DEVICE NAME: FJ15603DTU

RMS: U582385

PACKAGE: I2PAK

Test	Specification	Condition	Interval	Results
H3TRB	JESD22-A101	Ta=85°C, 85% RH, 80% rated or 100V max	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HTSL	JESD22-A103	TA = 150°C for 1008 hours	1008 hrs	0/77
UHASt	JESD22-A118	Temp= +110°C, RH=85%, unbiased	96 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/30
TR	JESD24-3, 2-4, 24-6			0/10
CDPA WP	MIL 883E	Following TC		0/6
CDPA WP	MIL 883E	Following HTSL		0/6
SD	JESD22-B106	a=245C 10 sec dwell		0/15

Electrical Characteristics 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
FCI25N60N-F102	FCI7N60
FCI7N60	FCI7N60
FDI150N10	FCI7N60



Final Product/Process Change Notification

Document #: FPCN23192X

Issue Date: 14 Oct 2020

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



Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FDI150N10		FCI7N60		
FQI13N50CTU		FCI7N60		
HUF75639S3		FCI7N60		
FDI045N10A-F102		FDI038AN06A0		
FQI50N06TU		FDI038AN06A0		
FJI5603DTU		FJI5603DTU		