



Initial Product/Process Change Notification

Document #: IPCN26186X

Issue Date: 30 Apr 2024

Title of Change:	Wafer FAB site transfer of HDG4D, HDG4, HDJ4 Technology from BK6 Korea to CZ4 Czech Republic.	
Proposed First Ship date:	30 Jan 2025 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Cindy.Hong@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:	Material will be traceable with onsemi lot trace code & date code.	
Change Category:	Wafer Fab Change	
Change Sub-Category(s):	Manufacturing Site Transfer	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
onsemi Roznov, Czech Republic	None	
Description and Purpose:		
onsemi is announcing the intention to transfer HDG4D, HDG4 and HDJ4 technology from onsemi Bucheon, Korea fab site to onsemi Roznov, Czech Republic fab site to increase wafer loading capacity.		
FAB Site	Before	After
Gate Driver HDG4D/HDG4DA/HDJ4	onsemi Bucheon, Korea	onsemi Roznov, Czech Republic
There are no product material changes as a result of this change.		
There is no product marking change as a result of this change.		



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Qualification Plan:

QV DEVICE NAME: NFAM5065L4BTL

RMS: V88889

PACKAGE: SPM31

Test	Specification	Condition	Interval
High Temperature Storage Life	JESD22-A103	Ta= 125°C	1008hrs
Temperature Cycling	JESD22-A104	Ta= -40°C to +125°C	1000cyc
Temperature Humidity Unbiased	JESD22- B101	Ta= 85°C, RH= 85%	1008hrs
High Humidity High Temperature Reverse Bias	JESD22-A101	Ta= 85°C, RH= 85%, 80% rated V	1008hrs
High Temperature Reverse Bias	JESD22-A108	Tj= 150°C, 100% rated V	1008hrs

QV DEVICE NAME: FNCS3060L (FAN77012MTCX)

RMS: 94998

PACKAGE: TSSOP(SPM4)

Test	Specification	Condition	Interval
High Temperature Storage Life	JESD22-A103	Ta= 125°C	1008hrs
Temperature Cycling	JESD22-A104	Ta= -40°C to +125°C	1000cyc

QV DEVICE NAME: FSBB10CH120DF

RMS: 88888

PACKAGE: SPM3V

Test	Specification	Condition	Interval
High Temperature Storage Life	JESD22-A103	Ta= 125°C	1008hrs
Temperature Cycling	JESD22-A104	Ta= -40°C to +125°C	1000cyc

QV DEVICE NAME: FAD6263M1X

RMS: 89459

PACKAGE: SOIC-16

Test	Specification	Condition	Interval
High Temperature Operating Life	JESD22-A108	Ta= 140°C, Biased	1008hrs
High Temperature Reverse Bias	JESD22-A108	Ta= 150°C, Biased	1008hrs
Early Life Failure Rate	AEC-Q100-008	Ta= 125°C, Biased	48hrs
Preconditioning	J-STD-020, JESD-A113	MSL 1 @ 260°C	
Temperature Humidity Bias	JESD22-A101	Ta= 85°C, RH= 85%, Biased	1008hrs
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C	1000cyc
Unbiased Highly Accelerated Stress Test	JESD22-A118	Ta= 130°C, RH= 85%, p= ~18.8psig	96hrs



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QV DEVICE NAME: FAD8253MX

RMS: 89458

PACKAGE: SOIC-14

Test	Specification	Condition	Interval
High Temperature Operating Life	JESD22-A108	Ta= 125°C, Biased	1008hrs
High Temperature Reverse Bias	JESD22-A108	Tj= 150°C, Biased	1008hrs
Early Life Failure Rate	AEC-Q100-008	Ta= 125°C, Biased	48hrs
Preconditioning	J-STD-020, JESD-A113	MSL 1 @ 260°C	
Temperature Humidity Bias	JESD22-A101	Ta= 85°C, RH= 85%, Biased	1008hrs
Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C	1000cyc
Unbiased Highly Accelerated Stress Test	JESD22-A118	Ta= 130°C, RH= 85%, p= ~18.8psig	96hrs

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
FNCS1560L	FNCS3060L, FAD6263M1X
FNCS3060L	FNCS3060L, FAD6263M1X
NFAL5065L4B	FNCS3060L, FAD6263M1X, FAD8253MX
NFAL5065L4BT	FNCS3060L, FAD6263M1X, FAD8253MX
NFAL7565L4B	FNCS3060L, FAD6263M1X, FAD8253MX
NFAL7565L4BT	FNCS3060L, FAD6263M1X, FAD8253MX
FNA22512A	FSBB10CH120DF, FAD6263M1X, FAD8253MX
FNA23512A	FSBB10CH120DF, FAD6263M1X, FAD8253MX
FNA25012A	FSBB10CH120DF, FAD6263M1X, FAD8253MX
FNA25060	FSBB10CH120DF, FAD6263M1X, FAD8253MX
FNB33060T	FSBB10CH120DF, FAD6263M1X, FAD8253MX
FNB33060T6S	FSBB10CH120DF, FAD6263M1X, FAD8253MX
FNB34060T	FSBB10CH120DF, FAD6263M1X, FAD8253MX
FNB35060T	FSBB10CH120DF, FAD6263M1X, FAD8253MX
FNB35060T6S	FSBB10CH120DF, FAD6263M1X, FAD8253MX
FSBB10CH120D	FSBB10CH120DF, FAD6263M1X, FAD8253MX



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FSBB10CH120DFL	FSBB10CH120DF, FAD6263M1X, FAD8253MX
FSBB15CH120D	FSBB10CH120DF, FAD6263M1X, FAD8253MX
FSBB15CH120DF	FSBB10CH120DF, FAD6263M1X, FAD8253MX
FSBB20CH120D	FSBB10CH120DF, FAD6263M1X, FAD8253MX
FSBB20CH120DF	FSBB10CH120DF, FAD6263M1X, FAD8253MX
NFL25065L4BT	FSBB10CH120DF, FAD6263M1X, FAD8253MX
NFP36060L42T	FSBB10CH120DF, FAD6263M1X, FAD8253MX
NFAM1512L7B	NFAM5065L4BTL, FAD6263M1X, FAD8253MX
NFAM2065L4B	NFAM5065L4BTL, FAD6263M1X, FAD8253MX
NFAM2065L4BT	NFAM5065L4BTL, FAD6263M1X, FAD8253MX
NFAM2512L7B	NFAM5065L4BTL, FAD6263M1X, FAD8253MX
NFAM3065L4B	NFAM5065L4BTL, FAD6263M1X, FAD8253MX
NFAM3065L4BT	NFAM5065L4BTL, FAD6263M1X, FAD8253MX
NFAM3065L4BTL	NFAM5065L4BTL, FAD6263M1X, FAD8253MX
NFAM3512L7B	NFAM5065L4BTL, FAD6263M1X, FAD8253MX
NFAM5065L4B	NFAM5065L4BTL, FAD6263M1X, FAD8253MX
NFAM5065L4BL	NFAM5065L4BTL, FAD6263M1X, FAD8253MX
NFAM5065L4BT	NFAM5065L4BTL, FAD6263M1X, FAD8253MX
FSBB10CH120DF	FSBB10CH120DF, FAD6263M1X, FAD8253MX
NFAM5065L4BTL	NFAM5065L4BTL, FAD6263M1X, FAD8253MX
NFA33012L72	FSBB10CH120DF, FAD6263M1X, FAD8253MX
NFA31512L72	FSBB10CH120DF, FAD6263M1X, FAD8253MX
NFA32512L72	FSBB10CH120DF, FAD6263M1X, FAD8253MX
NFAM3065L4BL	NFAM5065L4BTL, FAD6263M1X, FAD8253MX

Appendix A: Changed Products

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DIKG: DIGI-KEY (page 1 of 2)

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NFAL5065L4B		FNCS3060L, FAD6263M1X, FAD8253MX	#NONE	
NFAL5065L4BT		FNCS3060L, FAD6263M1X, FAD8253MX	#NONE	
NFAL7565L4BT		FNCS3060L, FAD6263M1X, FAD8253MX	#NONE	
FNA22512A		FSBB10CH120DF, FAD6263M1X, FAD8253MX	#NONE	
FNA23512A		FSBB10CH120DF, FAD6263M1X, FAD8253MX	#NONE	
FNA25012A		FSBB10CH120DF, FAD6263M1X, FAD8253MX	#NONE	
FNA25060		FSBB10CH120DF, FAD6263M1X, FAD8253MX	#NONE	
FNB33060T		FSBB10CH120DF, FAD6263M1X, FAD8253MX	#NONE	
FNB34060T		FSBB10CH120DF, FAD6263M1X, FAD8253MX	#NONE	
FNB35060T		FSBB10CH120DF, FAD6263M1X, FAD8253MX	#NONE	
FSBB10CH120D		FSBB10CH120DF, FAD6263M1X, FAD8253MX	#NONE	
FSBB15CH120D		FSBB10CH120DF, FAD6263M1X, FAD8253MX	#NONE	
FSBB15CH120DF		FSBB10CH120DF, FAD6263M1X, FAD8253MX	#NONE	
FSBB20CH120D		FSBB10CH120DF, FAD6263M1X, FAD8253MX	#NONE	
FSBB20CH120DF		FSBB10CH120DF, FAD6263M1X, FAD8253MX	#NONE	
NFL25065L4BT		FSBB10CH120DF, FAD6263M1X, FAD8253MX	#NONE	
NFP36060L42T		FSBB10CH120DF, FAD6263M1X, FAD8253MX	#NONE	
NFAM1512L7B		NFAM5065L4BTL, FAD6263M1X, FAD8253MX	#NONE	
NFAM2065L4B		NFAM5065L4BTL, FAD6263M1X, FAD8253MX	#NONE	
NFAM2065L4BT		NFAM5065L4BTL, FAD6263M1X, FAD8253MX	#NONE	

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
NFAM2512L7B		NFAM5065L4BTL, FAD6263M1X, FAD8253MX	#NONE	
NFAM3065L4B		NFAM5065L4BTL, FAD6263M1X, FAD8253MX	#NONE	
NFAM3065L4BT		NFAM5065L4BTL, FAD6263M1X, FAD8253MX	#NONE	
NFAM3065L4BTL		NFAM5065L4BTL, FAD6263M1X, FAD8253MX	#NONE	
NFAM3512L7B		NFAM5065L4BTL, FAD6263M1X, FAD8253MX	#NONE	
NFAM5065L4B		NFAM5065L4BTL, FAD6263M1X, FAD8253MX	#NONE	
NFAM5065L4BL		NFAM5065L4BTL, FAD6263M1X, FAD8253MX	#NONE	
NFAM5065L4BT		NFAM5065L4BTL, FAD6263M1X, FAD8253MX	#NONE	
FSBB10CH120DF		FSBB10CH120DF, FAD6263M1X, FAD8253MX	#NONE	
NFAM5065L4BTL		NFAM5065L4BTL, FAD6263M1X, FAD8253MX	#NONE	
NFAL7565L4B		FNCS3060L, FAD6263M1X, FAD8253MX	#NONE	