Final Product/Process Change Notification

Document #:FPCN24561X2
Issue Date:27 Dec 2022

Title of Change:	Update of FPCN24561X with qualification results of FRD Rectifiers, UniFET's, and other discrete products at onsemi Roznov, Czech Republic.
Proposed First Ship date:	27 Dec 2022 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Joeri.Klutsch@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.
Additional Reliability Data:	Contact your local onsemi Sales Office or songyong.sim@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. onsemi 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:	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:

This notification is to inform the customers that onsemi qualified their FRD Rectifiers, UniFET's, and other discrete products at onsemi Roznov, Czech Republic. Some of the parts may also undergo a wafer probe alternate location, but there is no impact to the 100% final electrical test.

NOTE: Due to priority changes, some parts have been removed from this qualification, also communicated through update notice FPCN24561X1. A new notice will be communicated later in 2023 with the modified plans for these parts.

	Before Change Description	**After Change Description**
Wafer fab	onsemi Bucheon, Korea	onsemi Roznov, Czech Republic onsemi Bucheon, Korea

There are no product material changes and no product marking changes as a result of this change.

Reliability Data Summary:
QV DEVICE NAME: FDA24N50 (QV1-1)
RMS: K83993, K86200
PACKAGE: TO3P

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= 150°C, 80% max rated V	1008 hrs	0/240
HTGB	JESD22-A108	Tj= 150°C, 100% max rated Vgss	1008 hrs	0/240
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/240
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/120
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/120
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/119

QV DEVICE NAME: FSL306LRLX (QV1-2)
RMS: K84642, K85655
PACKAGE: PDIP7 GULLWING

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/80
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/80
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C, Pre TC, uHAST, HAST for surface mount pkgs only	-	-
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/80
HAST	JESD22-A110	130°C, 85% RH, 33.3psig, bias	96 hrs	0/80
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/80

QV DEVICE NAME: FQA28N50 (QV2-1)
RMS: K84460
PACKAGE: TO3P

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= 150°C, 80% max rated V	1008 hrs	0/80
HTGB	JESD22-A108	Tj= 150°C, 100% max rated Vgss	1008 hrs	0/80
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/80
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/40
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/40
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/40

QV DEVICE NAME: FQA70N15 (QV2-2)
RMS: K87030
PACKAGE: TO3P

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= 175°C, 80% max rated V	1008 hrs	0/80
HTGB	JESD22-A108	Tj= 175°C, 100% max rated Vgss	1008 hrs	0/80
HTSL	JESD22-A103	Ta= 175°C	1008 hrs	0/80
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/40
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/40
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/40

QV DEVICE NAME: FQD2N100TM (QV2-3)
RMS: K87031
PACKAGE: DPAK

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= 150°C, 80% max rated V	1008 hrs	0/80
HTGB	JESD22-A108	Tj= 150°C, 100% max rated Vgss	1008 hrs	0/80
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/80
PC	J-STD-020 / JESD-A113	MSL 1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only	-	-
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/40
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/39
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/39

QV DEVICE NAME: FFPF10F150STU (QV6)
RMS: U86066, S87157
PACKAGE: TO-220-2

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj=175°C, 80% rated V	1008hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 5min	6000cyc	0/120
TC	JESD22-A104	Ta= -55°C to +150°C	1000cyc	0/75
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs	0/231
RSH	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only		0/30

QV DEVICE NAME: FPAM30LH60 (QV6-1)
RMS: K84869, K87758
PACKAGE: MOD-32 (SPM2V)

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj=150°C, 80% rated V	1008hrs	0/12
TC	JESD22-A104	Ta= -40°C to +125°C	1000cyc	0/12
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96hrs	0/12
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs	0/12

QV DEVICE NAME: NFVA35065L32 (QV8-1)
RMS: 83762, 84035
PACKAGE: ASPM27

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108, AQG324	Tj=175°C, 100% max rated V	1008 hrs	0/78
TC	JESD22-A104, AQG324	Ta= -40°C to +125°C	1000 cyc	0/39
TS1	AQG324	Ta= -40°C to +125°C, transition <30sec	1000 cyc	0/18
TS2	AQG324	Ta= -40°C to +125°C, transition <30sec, with heat sink	1000 cyc	0/6
H3TRB	JESD22-A110	85°C, 85% RH, 18.8psig, bias 100V	1008 hrs	0/78
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/36

QV DEVICE NAME: FGHL75T65MQD (QV8-2)
RMS: S85126
PACKAGE: TO-247

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj=175°C, 80% rated V	1008hrs	0/231
HTGB	JESD22-A108	Ta=175°C, 100% max rated Vgss	1008 hrs	0/231
HTSL	JESD22-A103	Ta=175°C	1008hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 5min	6000cyc	0/231
TC	JESD22-A104	Ta= -65°C to +150°C	1000cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs	0/231
RSH	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only		0/30

QV DEVICE NAME: FGA60N65SMD (QV8-3)
RMS: V85129
PACKAGE: TO-247

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj=175°C, 80% rated V	1008hrs	0/231
HTGB	JESD22-A108	Ta=175°C, 100% max rated Vgss	1008 hrs	0/231
HTSL	JESD22-A103	Ta=175°C	1008hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 5min	6000cyc	0/231
TC	JESD22-A104	Ta= -65°C to +150°C	1000cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96hrs	0/231
RSH	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only		0/30

QV DEVICE NAME: FDA28N50 (QV7-1)
RMS: K86421
PACKAGE: TO3P

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= 150°C, 80% max rated V	1008 hrs	0/160
HTGB	JESD22-A108	Tj= 150°C, 100% max rated Vgss	1008 hrs	0/160
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/160
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/79
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/80
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/80

QV DEVICE NAME: FDB52N20TM (QV7-2)
RMS: U86419
PACKAGE: D2PAK

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= 150°C, 80% max rated V	1008 hrs	0/80
HTGB	JESD22-A108	Tj= 150°C, 100% max rated Vgss	1008 hrs	0/80
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/80
PC	J-STD-020 / JESD-A113	MSL 1 @ 260°C, Pre IOL, TC, uHAST, HAST for surface mount pkgs only	-	-
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 3.5 min	8572 cyc	0/40
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/37
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/40
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/40

QV DEVICE NAME: FGH75T65SHD-F155
RRF: 68330, 68385
PACKAGE: TO247

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Tj = 175°C , 100% max rated V	1008 hrs	0/77
HAST	JESD22-A110	130°C, 85%RH, 18.8 psig, bias	96hrs	0/77
UHAST	JESD22-A118	130°C, 85%RH, 18.8 psig, unbiased	96hrs	0/77
TC	JESD22-A104	Ta = -55°C to +150°C	1000 cyc	0/77
HTSL	JESD22-A103	Ta = 175°C	1008 Hrs	0/77
IOL	MIL STD750 (M 1037) AEC Q101	Ta=+25°C, delta Tj=100°C,on/off =5 min	6000 cyc	0/77
RSH	JESD22- B106	Ta=265°C, 10 sec		0/30

QV DEVICE NAME: RHRG75120
RRF: 68323, 68388
PACKAGE: TO247

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Tj = 175°C , 80% max rated V	1008 hrs	0/231
HAST	JESD22-A110	130°C, 85%RH, 18.8 psig, bias	96hrs	0/231
UHAST	JESD22-A118	130°C, 85%RH, 18.8 psig, unbiased	96hrs	0/231
TC	JESD22-A104	Ta = -55°C to +150°C	1000 cyc	0/231
HTSL	JESD22-A103	Ta = 175°C	1008 hrs	0/231
IOL	MIL STD750 (M 1037) AEC Q101	Ta=+25°C, delta Tj=100°C,on/off =5 min	6000 cyc	0/231
RSH	JESD22- B106	Ta=265°C, 10 sec		0/90

QV DEVICE NAME: FFH30S60STU
RRF: 68326, 68387
PACKAGE: TO247

Test	Specification	Condition	Interval	Result
HTRB	JESD22-A108	Tj = 175°C , 80% max rated V	1008 hrs	0/77
HTSL	JESD22-A103	Ta = 175°C	1008 hrs	0/77
IOL	MIL STD750 (M 1037) AEC-Q101	Ta=+25°C, delta Tj=100°C, On/off =5 min	6000 cyc	0/77
TC	JESD22-A104	Ta = -55°C to +150°C	1000 cyc	0/77
H3TRB	JESD22-A101	85°C, 85% RH, 18.8psig, bias	1008 hrs	0/77
UHAST	JESD22-A118	130°C, 85%RH, 18.8 psig, unbiased	96hrs	0/77
RSH	JESD22- B106	Ta=265°C, 10 sec		0/30

QV DEVICE NAME: NXH450N65L4Q2F2S1G (QV3-AA)
RMS: 84405
PACKAGE: PIM

Test	Specification	Condition	Interval	Results
TC	JESD22-A104	Ta= -40°C to +125°C	100 cyc	0/12
HTSL	JESD22-A103	Ta=150°C	1008hrs	0/12
THU	JESD22-A118	85°C, 85% RH, unbiased	1008hrs	0/12

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
FCA22012A	RHRG75120
FDA28N50	FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FDA59N30	FDA28N50, FDB52N20TM
FDB12N50TM	FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FDB33N25TM	FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FDB52N20TM	FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FDPF18N20FT	FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FDPF20N50FT	FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FDPF20N50T	FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FDPF33N25T	FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FDPF55N06	FDA24N50, FSL306LRLX
FDT4N50NZU	FDA24N50, FSL306LRLX
FFPF10F150STU	FFPF10F150STU
FGA60N65SMD	FGA6N65SMD
FGH15T120SMD-F155	RHRG75120, RHRG75120
FGH25T120SMD-F155	RHRG75120
FGH40N60SMD	RHRG75120, RHRG75120
FGH40T100SMD-F155	RHRG75120, RHRG75120
FGH40T65SHDF-F155	FGH75T65SHD-F155, FFH30S60STU, RHRG75120
FGH4L50T65SQD	NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
FGH50T65SQD-F155	NXH45N65L4Q2F2S1G, NFVA3565L32, FGHL75T65MQD, FGA6N65SMD
FGH50T65UPD	NXH45N65L4Q2F2S1G, NFVA3565L32, FGHL75T65MQD, FGA6N65SMD
FGH60N60SFDTU	NXH45N65L4Q2F2S1G, NFVA3565L32, FGHL75T65MQD, FGA6N65SMD
FGH60N60SMD	RHRG75120, RHRG75120
FGH60N60UFDTU	NXH45N65L4Q2F2S1G, NFVA3565L32, FGHL75T65MQD, FGA6N65SMD
FGH60T65SHD-F155	NXH45N65L4Q2F2S1G, NFVA3565L32, FGHL75T65MQD, FGA6N65SMD
FGH60T65SQD-F155	NXH45N65L4Q2F2S1G, NFVA3565L32, FGHL75T65MQD, FGA6N65SMD
FGHL40T65LQDT	NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
FGHL40T65MQDT	NFVA35065L32, FGHL75T65MQD, FGA60N65SMD

FGHL50T65LQDT	NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
FGHL50T65LQDTL4	NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
FGHL50T65MQDT	NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
FGHL50T65MQDTL4	NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
FGHL50T65SQDT	NXH45N65L4Q2F2S1G, NFVA3565L32, FGHL75T65MQD, FGA6N65SMD
FGHL75T65LQDT	NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
FGHL75T65LQDTL4	NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
FGHL75T65MQD	NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
FGHL75T65MQDT	NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
FGHL75T65MQDTL4	NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
FGL40N120ANDTU	RHRG75120, RHRG75120
FGY100T65SCDT	RHRG75120
FNA22512A	NFVA3565L32
FNA23512A	RHRG75120
FNA25012A	RHRG75120
FNA25060	NFVA3565L32
FNA41060B7V	RHRG75120, FGH75T65SHD-F155, FFH30S60STU, RHRG75120
FNA41560	RHRG75120, FGH75T65SHD-F155, FFH30S60STU, RHRG75120
FNA41560T2	RHRG75120, NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
FNB33060T	RHRG75120, FGH75T65SHD-F155, FFH30S60STU, RHRG75120
FNB33060T6S	RHRG75120, FGH75T65SHD-F155, FFH30S60STU, RHRG75120
FNB34060T	NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
FNB35060T	RHRG75120, NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
FNB35060T6S	RHRG75120, NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
FNB41060	RHRG75120, FGH75T65SHD-F155, FFH30S60STU, RHRG75120
FNB41060B2	RHRG75120, FGH75T65SHD-F155, FFH30S60STU, RHRG75120
FNB41560B2	RHRG75120, FGH75T65SHD-F155, FFH30S60STU, RHRG75120
FNB43060T2	RHRG75120, FGH75T65SHD-F155, FFH30S60STU, RHRG75120
FNC42060F	RHRG75120, FGH75T65SHD-F155, FFH30S60STU, RHRG75120
FNC42060F5	RHRG75120, FGH75T65SHD-F155, FFH30S60STU, RHRG75120
FNC42060F7V	RHRG75120, FGH75T65SHD-F155, FFH30S60STU, RHRG75120
FNCS1560L	FFH30S60STU
FND43060T2	FGH75T65SHD-F155, FFH30S60STU, RHRG75120
FPA22012A	FFPF10F150STU

FPA23012A	FFPF10F150STU
FPAB20BH60B	FFPF10F150STU, RHRG75120
FPAB30BH60B	FFPF10F150STU, RHRG75120
FPAM30LH60	FFPF10F150STU, RHRG75120
FPAM50LH60G	FFPF10F150STU, RHRG75120, RHRG75120
FPDB40PH60B	NFVA3565L32
FPDB60PH60B	FFPF1F15STU, NXH45N65L4Q2F2S1G
FPDL10BH60	FFPF1F15STU, NXH45N65L4Q2F2S1G
FPDL10BH60L	FFPF1F15STU, NXH45N65L4Q2F2S1G
FPDL15BH60	FFPF1F15STU, NXH45N65L4Q2F2S1G
FQA13N80-F109	FQA28N50, FQA70N15, FQD2N100TM
FQA24N60	FQA28N50, FQA70N15, FQD2N100TM
FQA40N25	FQA28N50, FQA70N15, FQD2N100TM
FQB19N20TM	FQA28N50, FQA70N15, FQD2N100TM
FQB27P06TM	FQA28N50, FQA70N15, FQD2N100TM
FQB44N10TM	FQA28N50, FQA70N15, FQD2N100TM
FQB47P06TM-AM002	FQA28N50, FQA70N15, FQD2N100TM
FQB4N80TM	FQA28N50, FQA70N15, FQD2N100TM
FQB5N90TM	FQA28N50, FQA70N15, FQD2N100TM
FQD13N06LTM	FQA28N50, FQA70N15, FQD2N100TM
FQD13N10LTM	FQA28N50, FQA70N15, FQD2N100TM
FQD13N10TM	FQA28N50, FQA70N15, FQD2N100TM
FQD19N10LTM	FQA28N50, FQA70N15, FQD2N100TM
FQD2N90TM	FQA28N50, FQA70N15, FQD2N100TM
FQD30N06TM	FQA28N50, FQA70N15, FQD2N100TM
FQD3P50TM	FQA28N50, FQA70N15, FQD2N100TM
FQD7N20LTM	FQA28N50, FQA70N15, FQD2N100TM
FQD7P20TM	FQA28N50, FQA70N15, FQD2N100TM
FQI7N60TU	FQA28N50, FQA70N15, FQD2N100TM
FQP17N40	FQA28N50, FQA70N15, FQD2N100TM
FQP19N20-T	FQA28N50, FQA70N15, FQD2N100TM
FQPF27N25	FQA28N50, FQA70N15, FQD2N100TM
FQPF2N80	FQA28N50, FQA70N15, FQD2N100TM
FQT1N80TF-WS	FQA28N50, FQA70N15, FQD2N100TM

FQT4N20LTF	FQA28N50, FQA70N15, FQD2N100TM
FSB50250AP	RHRG75120, FDA28N50, FDB52N20TM
FSB50250AS	RHRG75120, FDA28N50, FDB52N20TM
FSB50250AT	RHRG75120, FDA28N50, FDB52N20TM
FSB50250US	FDA28N50, FDB52N20TM
FSB50325AP	RHRG75120, FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FSB50450AS	FFH30S60STU
FSB50450US	FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FSB50550AB	RHRG75120, FDA28N50, FDB52N20TM
FSB50550AS	RHRG75120, FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FSB50550ASE	RHRG75120, FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FSB50550AT	RHRG75120, FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FSB50550BB	FDA28N50, FDB52N20TM
FSB50550BS	RHRG75120
FSB50550US	FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FSB50825AB	RHRG75120, FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FSB50825AS	RHRG75120, FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FSB50825US	FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
FSB70250	FDA24N50, FSL306LRLX
FSB70450	FDA24N50, FSL306LRLX
FSBB10CH120D	NFVA3565L32
FSBB10CH120DF	NFVA3565L32
FSBB10CH120DFL	NFVA3565L32
FSBB15CH60C	RHRG75120
FSBB15CH60D	RHRG75120
FSL136MR	FDA24N50, FSL306LRLX
FSL137MRIN	FQA28N50, FQA70N15, FQD2N100TM
FSL306LRLX	FDA24N50, FSL306LRLX
FSL306LRN	FDA24N50, FSL306LRLX
FSL336LRLX	FDA24N50, FSL306LRLX
FSL336LRN	FDA24N50, FSL306LRLX
HGTG11N120CND	RHRG75120
HGTG30N60A4D	RHRG75120, RHRG75120
HGTP5N120BND	RHRG75120

ISL9R18120S3ST	NFVA3565L32
NBC9613	FDA28N50, FDB52N20TM
NBC9614	FDA28N50, FDB52N20TM
NBC9615	FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
NBC9616	FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
NBC9620	RHRG75120, FDA24N50, FSL306LRLX, FDA28N50, FDB52N20TM
NBC9624	RHRG75120
NFA50460R47	RHRG75120
NFA50460R4B	RHRG75120
NFAL5065L4B	NFVA3565L32
NFAL5065L4BT	NFVA3565L32
NFAL7565L4B	FFPF10F150STU, RHRG75120
NFAL7565L4BT	FFPF10F150STU, RHRG75120
NFAM2065L4B	FFPF10F150STU, RHRG75120, NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
NFAM2065L4BT	FFPF10F150STU, RHRG75120, NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
NFAM3065L4B	FFPF10F150STU, RHRG75120, FGH75T65SHD-F155, FFH30S60STU, RHRG75120
NFAM3065L4BT	FFPF10F150STU, RHRG75120, FGH75T65SHD-F155, FFH30S60STU, RHRG75120
NFAM3065L4BTL	FFPF10F150STU, RHRG75120, FGH75T65SHD-F155, FFH30S60STU, RHRG75120
NFAM5065L4B	FFPF10F150STU, RHRG75120, NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
NFAM5065L4BBA	FFPF10F150STU, RHRG75120, NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
NFAM5065L4BL	FFPF10F150STU, RHRG75120, NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
NFAM5065L4BT	FFPF10F150STU, RHRG75120, NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
NFAM5065L4BTL	FFPF10F150STU, RHRG75120, NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
NFCS1060L3TT	NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
NFL25065L4BT	FFPF10F150STU, FGH75T65SHD-F155, FFH30S60STU, RHRG75120
NFP36060L42T	FFPF1F15STU, NXH45N65L4Q2F2S1G
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NXH100B120H3Q0PG	FFPF10F150STU
NXH100B120H3Q0PTG	FFPF10F150STU
NXH100B120H3Q0SG	FFPF10F150STU
NXH100B120H3Q0STG	FFPF10F150STU

NXH100T120L3Q0S1NG	NXH45N65L4Q2F2S1G
NXH160T120L2Q2F2S1G	NXH45N65L4Q2F2S1G
NXH200B100H4F2SG	FFPF10F150STU, RHRG75120
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NXH240B120H3Q1PG-R	RHRG75120
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NXH240B120H3Q1S1G-R	RHRG75120
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NXH300B100H4Q2F2PG	FFPF10F150STU
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NXH300B100H4Q2F2SG	FFPF10F150STU
NXH300B100H4Q2F2SG-R	FFPF10F150STU
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NXH40T120L3Q1PTG	NXH45N65L4Q2F2S1G
NXH40T120L3Q1SG	NXH45N65L4Q2F2S1G
NXH450B100H4Q2F2PG	FFPF10F150STU
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NXH50M65L4C2ESG	FGH75T65SHD-F155, FFH30S60STU, RHRG75120, NFVA35065L32, FGHL75T65MQD, FGA60N65SMD
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NXH50M65L4Q1PTG	NXH45N65L4Q2F2S1G
NXH50M65L4Q1SG	NXH45N65L4Q2F2S1G
NXH600N65L4Q2F2SG	NXH45N65L4Q2F2S1G
NXH75M65L4Q1PTG	NXH45N65L4Q2F2S1G
SRHRG75120	RHRG75120, RHRG75120
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SNXH225B95H4Q2F2PG	FFPF1F15STU, NXH45N65L4Q2F2S1G
SNXH225B95H3Q2F2PG-S1	NXH45N65L4Q2F2S1G
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SNXH225B95H3Q2F2PG-D1	FFPF1F15STU, NXH45N65L4Q2F2S1G
SNXH150B95H4Q2F2PG	FFPF10F150STU, RHRG75120
SNXH150B95H3Q2F2PG-R	RHRG75120
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SNXH100B120H2Q0PG-N	FFPF10F150STU
SFGH15T120SMD-F155	RHRG75120, RHRG75120
RHRG5060	RHRG75120
PCR8PA5W	FGHL75T65MQD
PCR30160W	FFPF10F150STU
PCR10160W	FFPF10F150STU
PCISL9R30120W	NFVA3565L32
PCISL9R30120MF	NFVA3565L32
PCISL9R1560W	NFVA3565L32
PCFQ50N06LW	FQA28N50, FQA70N15, FQD2N100TM
PCFQ4N80W	FQA28N50, FQA70N15, FQD2N100TM
PCFQ13N80W	FQA28N50, FQA70N15, FQD2N100TM
PCFQ13N10LW	FQA28N50, FQA70N15, FQD2N100TM
PCFF75H60F	RHRG75120
PCFF50S65W	NFVA3565L32
PCFF30S65W	NFVA3565L32
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NXH600N65L4Q2F2PG	NXH45N65L4Q2F2S1G
NXH240B120H3Q1P1G-R	RHRG75120
NXH240B120H3Q1P1G	RHRG75120
NXH100B120H3Q0PG-R	FFPF10F150STU
NFAM3065L4BL	FFPF10F150STU, RHRG75120, FGH75T65SHD-F155, FFH30S60STU, RHRG75120
ISL9R18120W2	NFVA3565L32
FDE1N40TF	FDA24N50, FSL306LRLX