



Initial Product/Process Change Notification

Document #: IPCN24765X1

Issue Date: 09 May 2023

Title of Change:	Update to IPCN24765X_to adjust Proposed First Ship Date to 12/31/2023
Proposed First Ship date:	31 Dec 2023 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Yun.Cui@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:	Keep same marking. Changed material will be identified by lot code.
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
onsemi Suzhou, China	None

Description and Purpose:

This is an updated to IPCN24765X, announcing the correction of proposed first ship date.

PCN context from first IPCN:

This IPCN is to inform customers that onsemi is qualifying new green mold compound GR710 from China local supplier Hysol, as alternative source on selected D2PAK Discrete products in onsemi Suzhou, China. This will help improve supply chain flexibility.

There are no changes in product electrical specifications.

	Before Change Description	After Change Description
Mold Compound	CEL8240HF10 CEL8240HF10FC KTMC5900GM F01 EME 6600CS	CEL8240HF10 CEL8240HF10FC KTMC5900GM F01 EME 6600CS GR710

There is no product marking change as a result of this change.



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Qualification Plan:

QV DEVICE NAME: HGT1S10N120BNST

PACKAGE: D2PAK

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj= _150_°C, _80_% max rated V	_1008_ hrs
HTGB	JESD22-A108	Tj= _150_°C, 100% max rated Vgss	_1008_ hrs
HTSL	JESD22-A103	Ta= _150_°C	_1008_ hrs
TC+PC	JESD22-A104	Ta= - _55_°C to + _150_°C	_1000_ cyc
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V or 100V max	96hrs
UHAST+PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96hrs
IOL+PC	MIL STD750, M 1037	Ta=+25°C, deltaTj=100°C max, 3.5 min= Ton=Toff	_8572_ cyc
SD	JSTD002	Ta = 245C, 5 sec	

QV DEVICE NAME: SMJB5603T4G

PACKAGE: D2PAK

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj= _150_°C, _80_% max rated V	_1008_ hrs
HTSL	JESD22-A103	Ta= _150_°C	_1008_ hrs
TC+PC	JESD22-A104	Ta= - _55_°C to + _150_°C	_1000_ cyc
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V or 100V max	96hrs
UHAST+PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96hrs
IOL+PC	MIL STD750, M 1037	Ta=+25°C, deltaTj=100°C max, 3.5 min= Ton=Toff	_8572_ cyc
SD	JSTD002	Ta = 245C, 5 sec	

QV DEVICE NAME: ISL9R18120S3ST

PACKAGE: D2PAK

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj= _175_°C, _80_% max rated V	_1008_ hrs
HTSL	JESD22-A103	Ta= _175_°C	_1008_ hrs
TC+PC	JESD22-A104	Ta= - _55_°C to + _150_°C	_1000_ cyc
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V or 100V max	96hrs
UHAST+PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96hrs
IOL+PC	MIL STD750, M 1037	Ta=+25°C, deltaTj=100°C max, 3.5 min= Ton=Toff	_8572_ cyc
SD	JSTD002	Ta = 245C, 5 sec	



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QV DEVICE NAME: FDB2552-SB82178

PACKAGE: D2PAK

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj= <u>175</u> °C, <u>80</u> % max rated V	<u>1008</u> hrs
HTGB	JESD22-A108	Tj= <u>175</u> °C, 100% max rated Vgss	<u>1008</u> hrs
HTSL	JESD22-A103	Ta= <u>175</u> °C	<u>1008</u> hrs
TC+PC	JESD22-A104	Ta= - <u>55</u> °C to + <u>150</u> °C	<u>1000</u> cyc
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 42V max	96hrs
UHAST+PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96hrs
IOL+PC	MIL STD750, M 1037	Ta=+25°C, deltaTj=100°C max, 3.5 min= Ton=Toff	<u>8572</u> cyc
SD	JSTD002	Ta = 245C, 5 sec	

QV DEVICE NAME: FFB20UP20DN-SB82216

PACKAGE: D2PAK

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj= <u>175</u> °C, <u>80</u> % max rated V	<u>1008</u> hrs
HTSL	JESD22-A103	Ta= <u>175</u> °C	<u>1008</u> hrs
TC+PC	JESD22-A104	Ta= - <u>55</u> °C to + <u>150</u> °C	<u>1000</u> cyc
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V or 100V max	96hrs
UHAST+PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96hrs
IOL+PC	MIL STD750, M 1037	Ta=+25°C, deltaTj=100°C max, 3.5 min= Ton=Toff	<u>8572</u> cyc
SD	JSTD002	Ta = 245C, 5 sec	

QV DEVICE NAME: FFSB1065B

PACKAGE: D2PAK

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj= <u>175</u> °C, <u>100</u> % max rated V	<u>1008</u> hrs
HTSL	JESD22-A103	Ta= <u>175</u> °C	<u>1008</u> hrs
TC+PC	JESD22-A104	Ta= - <u>55</u> °C to + <u>150</u> °C	<u>1000</u> cyc
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated BV	96hrs
UHAST+PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96hrs
IOL+PC	MIL STD750, M 1037	Ta=+25°C, deltaTj=100°C max, 2 min= Ton=Toff	<u>15000</u> cyc
SD	JSTD002	Ta = 245C, 5 sec	



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QV DEVICE NAME: NVB082N65S3F

PACKAGE: D2PAK

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj= _150_ °C, _80_% max rated V	_1008_ hrs
HTGB	JESD22-A108	Tj= _150_ °C, 100% max rated Vgss	_1008_ hrs
HTSL	JESD22-A103	Ta= _150_ °C	_1008_ hrs
TC+PC	JESD22-A104	Ta= -_55_ °C to +_150_ °C	_1000_ cyc
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 42V max	96hrs
UHAST+PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96hrs
IOL+PC	MIL STD750, M 1037	Ta=+25°C, deltaTj=100°C max, 3.5 min= Ton=Toff	_8572_ cyc
SD	JSTD002	Ta = 245C, 5 sec	

QV DEVICE NAME: NVBGS4D1N15MC

PACKAGE: D2PAK

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj= _175_ °C, _100_% max rated V	_1008_ hrs
HTGB	JESD22-A108	Tj= _175_ °C, 100% max rated Vgss	_1008_ hrs
HTSL	JESD22-A103	Ta= _175_ °C	_1008_ hrs
TC+PC	JESD22-A104	Ta= -_55_ °C to +_150_ °C	_1000_ cyc
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V or 100V max	96hrs
UHAST+PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96hrs
IOL+PC	MIL STD750, M 1037	Ta=+25°C, deltaTj=100°C max, 2 min= Ton=Toff	_15000_ cyc
SD	JSTD002	Ta = 245C, 5 sec	

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
FCB070N65S3	NVB082N65S3F
FCB099N65S3	NVB082N65S3F
FCB110N65F	NVB082N65S3F
FCB11N60TM	NVB082N65S3F
FCB125N65S3	NVB082N65S3F
FCB199N65S3	NVB082N65S3F



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FCB20N60FTM	NVB082N65S3F
FDB024N06	FDB2552-SB82178
FDB024N08BL7	FDB2552-SB82178
FDB0250N807L	FDB2552-SB82178
FDB0260N1007L	FDB2552-SB82178
FDB029N06	FDB2552-SB82178
FDB0300N1007L	FDB2552-SB82178
FDB031N08	FDB2552-SB82178
FDB035AN06A0	FDB2552-SB82178
FDB035N10A	FDB2552-SB82178
FDB045AN08A0	FDB2552-SB82178
FDB047N10	FDB2552-SB82178
FDB050AN06A0	FDB2552-SB82178
FDB060AN08A0	FDB2552-SB82178
FDB0630N1507L	FDB2552-SB82178
FDB0690N1507L	FDB2552-SB82178
FDB070AN06A0	FDB2552-SB82178
FDB075N15A	FDB2552-SB82178
FDB082N15A	FDB2552-SB82178
FDB088N08	FDB2552-SB82178
FDB110N15A	FDB2552-SB82178
FDB120N10	FDB2552-SB82178
FDB12N50TM	FDB2552-SB82178
FDB13AN06A0	FDB2552-SB82178
FDB150N10	FDB2552-SB82178
FDB15N50	FDB2552-SB82178
FDB16AN08A0	FDB2552-SB82178
FDB1D7N10CL7	NVBGS4D1N15MC
FDB20N50F	FDB2552-SB82178
FDB2532	FDB2552-SB82178
FDB2552	FDB2552-SB82178
FDB2572	FDB2552-SB82178
FDB2614	FDB2552-SB82178
FDB2710	FDB2552-SB82178



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FDB28N30TM	FDB2552-SB82178
FDB33N25TM	FDB2552-SB82178
FDB3502	FDB2552-SB82178
FDB3632	FDB2552-SB82178
FDB3652	FDB2552-SB82178
FDB3682	FDB2552-SB82178
FDB38N30U	FDB2552-SB82178
FDB390N15A	FDB2552-SB82178
FDB44N25TM	FDB2552-SB82178
FDB52N20TM	FDB2552-SB82178
FDB5800	FDB2552-SB82178
FDB86102LZ	FDB2552-SB82178
FDB86135	FDB2552-SB82178
FFSB0465A	FFSB1065B
FFSB0665A	FFSB1065B
FFSB0665B	FFSB1065B
FFSB0865A	FFSB1065B
FFSB0865B	FFSB1065B
FFSB10120A	FFSB1065B
FFSB1065A	FFSB1065B
FFSB1065B	FFSB1065B
FFSB1265A	FFSB1065B
FFSB20120A	FFSB1065B
FFSB2065B	FFSB1065B
FFSB3065B	FFSB1065B
FJB102TM	SMJB5603T4G
FJB555TM	SMJB5603T4G
FQB12P20TM	FDB2552-SB82178
FQB19N20LTM	FDB2552-SB82178
FQB19N20TM	FDB2552-SB82178
FQB22P10TM	FDB2552-SB82178
FQB27P06TM	FDB2552-SB82178
FQB34P10TM	FDB2552-SB82178
FQB44N10TM	FDB2552-SB82178



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FQB47P06TM-AM002	FDB2552-SB82178
FQB4N80TM	FDB2552-SB82178
FQB55N10TM	FDB2552-SB82178
FQB5N90TM	FDB2552-SB82178
HGT1S10N120BNST	HGT1S10N120BNST
HUF75345S3ST	FDB2552-SB82178
HUF75545S3ST	FDB2552-SB82178
HUF75631S3ST	FDB2552-SB82178
HUF75639S3ST	FDB2552-SB82178
HUF76429S3ST	FDB2552-SB82178
HUF76439S3ST	FDB2552-SB82178
NTBS9D0N10MC	NVBGS4D1N15MC
NTBS2D7N06M7	FDB2552-SB82178
NTBGS6D5N15MC	NVBGS4D1N15MC
NTBGS4D1N15MC	NVBGS4D1N15MC
NTBGS004N10G	FDB2552-SB82178
NTB7D3N15MC	NVBGS4D1N15MC
NTB5D0N15MC	NVBGS4D1N15MC
NTB190N65S3HF	NVB082N65S3F
NTB150N65S3HF	NVB082N65S3F
NTB110N65S3HF	NVB082N65S3F
NTB095N65S3HF	NVB082N65S3F
NTB082N65S3F	NVB082N65S3F
NTB011N15MC	NVBGS4D1N15MC
NTB004N10G	FDB2552-SB82178
NDB5060L	FDB2552-SB82178
KSB834WYTM	SMJB5603T4G
HUFA75645S3S	FDB2552-SB82178
HUF76639S3ST	FDB2552-SB82178
FDB0190N807L	FDB2552-SB82178
FDB0170N607L	FDB2552-SB82178
FDB0165N807L	FDB2552-SB82178
FDB0105N407L	FDB2552-SB82178
FCB290N80	NVB082N65S3F



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FCB260N65S3	NVB082N65S3F
FCB20N60TM	NVB082N65S3F