



Initial Product/Process Change Notification

Document #: IPCN26983XA

Issue Date: 31 Mar 2026

Title of Change:	Wafer Fab and Test Site Change for UFET Trench Products from Mountain Top, USA to Bucheon, Korea and assembly BOM changes (mold compound and lead frame)	
Proposed First Ship date:	01 Dec 2026 or earlier if approved by customer	
Current Material Last Order Date:	31 May 2026 <i>Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.</i>	
Contact Information:	Contact your local onsemi Sales Office	
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	
Marking of Parts/ Traceability of Change:	The changed material can be identified by lot code and date code.	
Change Category:	Assembly Change, Wafer Fab Change, Test Change	
Change Sub-Category(s):	Material Change, Manufacturing Site Addition	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
onsemi Bucheon, Korea	None	
onsemi Cebu, Philippines		
Description and Purpose:		
This is an Initial Change Notification to inform customers of the qualifications of onsemi Bucheon, Korea facility as NEW wafer fab site for UFET Trench Technology and assembly BOM changes (mold compound and lead frame). FPCNs to be issued in Sep of 2026 with first ship date as referenced above from Bucheon fab. If your FPCN approval will extend beyond the proposed first ship date, provide unit requirements for the unchanged material to your onsemi sales representative no later than May 31, 2026, by NCNR PO (Last order date for unchanged material). These bridge quantities will be limited and will be considered on a first-come, first-serve basis. onsemi will work with customers to facilitate the approval of the FPCNs by providing early samples and matching electrical data upon request, prior to the final PCN notices in July of 2026 to reduce customers' need for additional unchanged material. Early samples are processed according to final process and condition as released in the FPCN. No changes will occur between early samples and after FPCN issuance.		



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	Before Change Description	After Change Description
FAB Site	Mountain Top, PA, USA	onsemi Bucheon, Korea
Backgrind Site	Mountain Top, PA, USA	onsemi Bucheon, Korea
Probe Site	Mountain Top, PA, USA and Bucheon, Korea	onsemi Bucheon, Korea
Wafer size	8 inch	6 inch
Mold Compound change for TO263 only	KCC KTCM5900GM	Cebu_Sumitomo G700HF
Lead frame material change for TO263	C14415	C14415, PMC90

Qualification Plan:

QV DEVICE NAME : FDB2710 (QV 1T)

RMS : 98259

PACKAGE : D2PAK

Test	Specification	Condition	Interval
High Temperature Reverse Bias	JESD22-A108	Tj = Max rate Tj for device, bias =100% of rated V (Not to exceed max rated)	1,008 hrs
High Temperature Gate Bias	JESD22-A108	Tj = Max rate Tj for device, Max Vgs	1,008 hrs
High Temperature Storage Life	JESD22-A103	Ta =Max rate storage temp for device	1,008 hrs
Precondition (PC)	J-STD-020, JESD22-A113	IR reflow at 245C or 260(pkg dependant)	-
(PC+) Highly Accelerated Stress Test	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V or 100V max	96 hrs
(PC+) Unbiased Highly Accelerated Stress Test	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96 hrs
(PC+) Temp Cycling	JESD22-A104	Temp = -55°C to +150°C	1,000 cyc
(PC+) Intermittent Operating Life	MIL STD750, M 1037, AEC Q101	Ta=+25°C, deltaTj=100°C max, 3.5 min Ton=Toff	8,527 cyc

QV DEVICE NAME : FDB5800 (QV 2T)

RMS : 98261

PACKAGE : D2PAK

Test	Specification	Condition	Interval
High Temperature Gate Bias	JESD22-A108	Tj = Max rate Tj for device, Max Vgs	1,008 hrs

QV DEVICE NAME : FDS2734 (QV 3T)

RMS : 98260

PACKAGE : SOIC-8

Test	Specification	Condition	Interval
Precondition (PC)	J-STD-020, JESD22-A113	IR reflow at 245C or 260(pkg dependant)	-
(PC+) Highly Accelerated Stress Test	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 80% of rated V or 100V max	96 hrs
(PC+) Unbiased Highly Accelerated Stress Test	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96 hrs
(PC+) Temp Cycling	JESD22-A104	Temp = -55°C to +150°C	1,000 cyc
(PC+) Intermittent Operating Life	MIL STD750, M 1037, AEC Q101	Ta=+25°C, deltaTj=100°C max, 2 min Ton=Toff	15,000 cyc

Estimated date for qualification completion: **31 August 2026**



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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**.

Current Part Number	New Part Number	Qualification Vehicle
FDS3992	#NONE	FDB2710
FDS3692	#NONE	FDB2710
FDS3672	#NONE	FDB2710
FDS3572	#NONE	FDB2710
FDS2734	#NONE	FDB2710
FDS2672	#NONE	FDB2710
FDS2582	#NONE	FDB2710
FDS2572	#NONE	FDB2710
FDPF2710T	#NONE	FDB2710
FDP42AN15A0	#NONE	FDB2710
FDP3682	#NONE	FDB2710
FDP3672	#NONE	FDB2710
FDP3652	#NONE	FDB2710
FDP3651U	#NONE	FDB2710
FDP3632	#NONE	FDB2710
FDP2710	#NONE	FDB2710
FDP2614	#NONE	FDB2710
FDP2572	#NONE	FDB2710
FDP2552	#NONE	FDB2710
FDP2532	#NONE	FDB2710
FDP047AN08A0-G	#NONE	FDB2710
FDMS3672	#NONE	FDB2710
FDMS3572	#NONE	FDB2710
FDMS2734	#NONE	FDB2710
FDMS2672	#NONE	FDB2710
FDMS2572	#NONE	FDB2710
FDMC2610	#NONE	FDB2710
FDM3622	#NONE	FDB2710
FDH3632	#NONE	FDB2710
FDD3682	#NONE	FDB2710



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FDD3672	#NONE	FDB2710
FDD2582	#NONE	FDB2710
FDD2572	#NONE	FDB2710
FDD120AN15A0	#NONE	FDB2710
FDB3682	#NONE	FDB2710
FDB070AN06A0	#NONE	FDB2710
FDP070AN06A0	#NONE	FDB2710
FDB050AN06A0	#NONE	FDB2710
FDP050AN06A0	#NONE	FDB2710
FDB035AN06A0	#NONE	FDB2710
FDP038AN06A0	#NONE	FDB2710
FDB16AN08A0	#NONE	FDB2710
FDD16AN08A0	#NONE	FDB2710
FDP16AN08A0	#NONE	FDB2710
FDB060AN08A0	#NONE	FDB2710
FDP060AN08A0	#NONE	FDB2710
FDB045AN08A0	#NONE	FDB2710
FDH047AN08A0	#NONE	FDB2710
FDP047AN08A0	#NONE	FDB2710
FDB3652	#NONE	FDB2710
FDB3632	#NONE	FDB2710
FDB2572	#NONE	FDB2710
FDB2552	#NONE	FDB2710
FDB2532	#NONE	FDB2710
FDB2710	#NONE	FDB2710
FDB2614	#NONE	FDB2710
FDMS5672	#NONE	FDB2710
FDS5672	#NONE	FDB2710
FDD10AN06A0	#NONE	FDB2710
FDD13AN06A0	#NONE	FDB2710
FDB13AN06A0	#NONE	FDB2710
FDP5800	#NONE	FDB2710
FDB5800	#NONE	FDB2710

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FDS3992		FDB2710	#NONE	
FDS3692		FDB2710	#NONE	
FDS3672		FDB2710	#NONE	
FDS3672		FDB2710	#NONE	
FDS3572		FDB2710	#NONE	
FDS2734		FDB2710	#NONE	
FDS2672		FDB2710	#NONE	
FDS2582		FDB2710	#NONE	
FDS2572		FDB2710	#NONE	
FDP42AN15A0		FDB2710	#NONE	
FDPF2710T		FDB2710	#NONE	
FDP3682		FDB2710	#NONE	
FDP3651U		FDB2710	#NONE	
FDP3652		FDB2710	#NONE	
FDP2710		FDB2710	#NONE	
FDP3632		FDB2710	#NONE	
FDP2614		FDB2710	#NONE	
FDP2572		FDB2710	#NONE	
FDP2552		FDB2710	#NONE	
FDP2532		FDB2710	#NONE	
FDMS3672		FDB2710	#NONE	
FDMS3572		FDB2710	#NONE	
FDMS2672		FDB2710	#NONE	
FDMS2734		FDB2710	#NONE	
FDMS2572		FDB2710	#NONE	
FDMC2610		FDB2710	#NONE	
FDM3622		FDB2710	#NONE	
FDH3632		FDB2710	#NONE	
FDD3682		FDB2710	#NONE	
FDD3672		FDB2710	#NONE	
FDD2582		FDB2710	#NONE	
FDD2572		FDB2710	#NONE	
FDD120AN15A0		FDB2710	#NONE	
FDB070AN06A0		FDB2710	#NONE	
FDB3682		FDB2710	#NONE	
FDP050AN06A0		FDB2710	#NONE	
FDB050AN06A0		FDB2710	#NONE	
FDB035AN06A0		FDB2710	#NONE	
FDP038AN06A0		FDB2710	#NONE	
FDD16AN08A0		FDB2710	#NONE	
FDP16AN08A0		FDB2710	#NONE	
FDB045AN08A0		FDB2710	#NONE	
FDB060AN08A0		FDB2710	#NONE	
FDB3652		FDB2710	#NONE	
FDH047AN08A0		FDB2710	#NONE	
FDP047AN08A0		FDB2710	#NONE	
FDB3632		FDB2710	#NONE	
FDB3632		FDB2710	#NONE	
FDB2572		FDB2710	#NONE	
FDB2552		FDB2710	#NONE	
FDB2532		FDB2710	#NONE	
FDB2710		FDB2710	#NONE	
FDB2614		FDB2710	#NONE	
FDMS5672		FDB2710	#NONE	
FDS5672		FDB2710	#NONE	
FDMS5672		FDB2710	#NONE	
FDD10AN06A0		FDB2710	#NONE	
FDD13AN06A0		FDB2710	#NONE	
FDB13AN06A0		FDB2710	#NONE	
FDB5800		FDB2710	#NONE	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FDP5800		FDB2710	#NONE	

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FDP2532		FDB2710	#NONE	
FDD2572		FDB2710	#NONE	
FDB2532		FDB2710	#NONE	