



Initial Product/Process Change Notification

Document #: IPCN24693Z

Issue Date: 29 Jun 2022

Title of Change:	Qualification of Wafer Fab Transfer for RP3/PT3 MOSFET Technology to onsemi Bucheon, Korea facility.	
Proposed Changed Material First Ship Date:	03 Oct 2023 or earlier if approved by customer	
Current Material Last Order Date:	21 Jan 2022 <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>	
Current Material Last Delivery Date:	02 Oct 2023 <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>	
Product Category:	Active components – Discrete components	
Contact information:	Contact your local onsemi Sales Office or Daryl.Cruz@onsemi.com	
PCN Samples Contact:	Contact your local onsemi Sales Office to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification. 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 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 6 months prior to implementation of the change. In case of questions, contact < PCN.Support@onsemi.com >.	
Change Category		
Category	Type of Change	
Process - Wafer Production	New / change of wafer substrate material	
Equipment	Production from a new equipment/tool which uses the same basic technology (replacement equipment or extension of existing equipment pool) without change of process.	
Description and Purpose:		
<p>This Product Change Notification is intended to increase capacity for Automotive RP3, PT3 MOSFET technology products by transferring wafer fabrication to onsemi Bucheon Korea.</p> <p>The changes include transferring wafer fabrication and the orderable part number only. Other probe/ATO site are remaining as it is.</p> <p>There is no product marking change as a result of this change.</p>		
	From	To
Fab Site	TowerJazz Israel	onsemi Bucheon Korea
Reason / Motivation for Change:	Capacity improvement	
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:	The device will be qualified and validated based on the same Product Specification. No anticipated impacts.	

Sites Affected:			
onsemi Sites		External Foundry/Subcon Sites	
onsemi Bucheon, Korea		None	
Marking of Parts/ Traceability of Change:	No change		
Reliability Data Summary:			
QV DEVICE NAME : FDD4141-F085 RMS: TBD PACKAGE: DPAK			
Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj=150°C, 100% max rated BV	1008 hrs
HTGB	JESD22-A108	Tj=150°C, 100% max rated Vgss	1008 hrs
HTSL	JESD22-A103	Ta=150°C	1008 hrs
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	-
Electrical Characteristics Summary:			
Electrical characteristics are not impacted.			
List of Affected Parts:			
<i>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.</i>			
Current Part Number	New Part Number	Qualification Vehicle	
FDD4141-F085	FDD4141-F085BK	FDD4141-F085	

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FDD4141-F085		FDD4141-F085	FDD4141-F085BK	