

Final Product/Process Change Notification

Document #:FPCN24561ZE Issue Date:22 Dec 2023

Title of Change:	Transfer QFET discrete products to onsemi Roznov, Czech Republic.	
Proposed Changed Material First Ship Date:	29 Jun 2024 or earlier if approved by customer	
Current Material Last Order Date:	15 Apr 2024 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.	
Current Material Last Delivery Date:	28 Jun 2024 The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory	
Product Category:	Active components – Discrete components	
Contact information:	Contact your local onsemi Sales Office or Phuong.Hoang@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.	
Sample Availability Date:	31 Dec 2023	
PPAP Availability Date: 31 Dec 2023		
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. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com.	
Change Category		
Category	Type of Change	
Process - Wafer Production	Move of all or part of wafer fab to a different location/site/subcontractor	
Equipment	Production from a new equipment/tool which uses the same basic technology (replacemen equipment or extension of existing equipment pool) without change of process.	

Description and Purpose:

This notification is to inform the customers that onsemi plans to transfer wafer fab of QFET discrete products to onsemi Roznov, Czech Republic and back grind back & back metal to onsemi, ISMF Malaysia

Before Change Description		After Change Description	
Wafer fab	onsemi Bucheon, Korea	onsemi Roznov, Czech Republic	
Back grind & back metal	onsemi Bucheon, Korea	onsemi, ISMF Malaysia	

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

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Reason / Motivation for Change:	Supply disruption		
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:	The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded. No anticipated impacts.		
Sites Affected:			
onsemi Sites		External Foundry/Subcon Sites	
onsemi Roznov, Czech Republic onsemi, ISMF Malaysia		None	
Marking of Parts/ Traceability of Change:	Changed material can be identified by lot code		

Reliability Data Summary:

QV DEVICE NAME: FQD18N20V2TM (6-QFET)

RMS: U90867 PACKAGE: DPAK

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= 150°C, 80% max rated V	1008 hrs	0/231
HTGB	JESD22-A108	Tj= 150°C, 100% max rated Vgss	1008 hrs	0/240
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/240
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	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/240
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240

NOTE: AEC 1 Pager is attached.

To view attachments:

- 1. Download pdf copy of the PCN to your computer
- 2. Open the downloaded pdf copy of the PCN
- 3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field
- 4. Then click on the attached file

Electrical Characteristics Summary:

Electrical characteristics are not impacted.

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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	
FQD8P10TM-F085	NA	FQD18N20V2TM	
FQB34P10TM-F085	NA	FQD18N20V2TM	

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Appendix A: Changed Products

PCN#: FPCN24561ZE

Issue Date: Dec 22, 2023

DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FQD8P10TM-F085		FQD18N20V2TM	NA	
FQB34P10TM-F085		FQD18N20V2TM	NA	