

Final Product/Process Change Notification Document #:FPCN24561ZD

Issue Date:19 Oct 2023

Title of Change:	Qualification of FRD Rectifiers, and other discrete products at onsemi Roznov, Czech		
<u> </u>	Republic.		
Proposed Changed Material First Ship Date:	26 Apr 2024 or earlier if approved by customer		
Current Material Last Order Date:	N/A 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:	N/A 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 custome packing/label requirements.		
Sample Availability Date:	31 Oct 2023		
PPAP Availability Date:	31 Oct 2023		
Additional Reliability Data:	Contact your local onsemi Sales Office or Marco.kang@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 (replacement equipment or extension of existing equipment pool) without change of process.		

Description and Purpose:

This notification is to inform the customers that onsemi qualified their FRD Rectifiers and other discrete products at onsemi Roznov, Czech Republic.

	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.

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Reason / Motivation for Change:	Capacity improvement		
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		None	
Marking of Parts/ Traceability of Change:	Changed material can be identified by lot code		

Reliability Data Summary:

QV DEVICE NAME: FGY120T65SPD-F085 (QV1)

RMS: U90527 **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, +20V	1008hrs	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= -55°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

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/s

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
RHRG3060-F085	NA	FGY120T65SPD-F085
AFGHL40T120RLD	NA	FGY120T65SPD-F085
AFGY100T65SPD	NA	FGY120T65SPD-F085
FGY160T65SPD-F085	NA	FGY120T65SPD-F085
AFGY160T65SPD-B4	NA	FGY120T65SPD-F085
AFGY120T65SPD	NA	FGY120T65SPD-F085
FGY120T65SPD-F085	NA	FGY120T65SPD-F085

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Appendix A: Changed Products

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DIKG: DIGI-KEY

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
RHRG3060-F085		FGY120T65SPD-F085	NA	
FGY160T65SPD-F085		FGY120T65SPD-F085	NA	
AFGY160T65SPD-B4		FGY120T65SPD-F085	NA	
AFGY120T65SPD		FGY120T65SPD-F085	NA	
FGY120T65SPD-F085		FGY120T65SPD-F085	NA	
AFGY100T65SPD		FGY120T65SPD-F085	NA	