



Initial Product/Process Change Notification

Document #: IPCN24561XB

Issue Date: 27 Sep 2023

Title of Change:	Qualification of FRD Rectifiers, Q-FET, and other discrete products at onsemi Roznov, Czech Republic.
Proposed First Ship date:	20 Feb 2024 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Gapyeol.Kim@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:	Date Code
Change Category:	Wafer Fab Change
Change Sub-Category(s):	Manufacturing Site Transfer

Sites Affected:

onsemi Sites

onsemi Roznov, Czech Republic

External Foundry/Subcon Sites

None

Description and Purpose:

This notification is to inform the customers that onsemi qualified their FRD Rectifiers, Q-FET's, and other discrete products at onsemi Roznov, Czech Republic. Some of the parts may also undergo a wafer probe alternate location, but there is no impact to the 100% final electrical test.

	Before Change Description	After Change Description
Wafer Fab	onsemi Bucheon, Korea	onsemi Roznov, Czech Republic

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



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Qualification Plan:

QV DEVICE NAME: FQA36P15

RMS: 90866

PACKAGE: TO-3P

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj=175°C, 80% max rated V	1008 hrs
HTGB	JESD22-A108	Tj=175°C, 100% max rated Vgss	1008 hr
HTSL	JESD22-A103	Ta=175°C	1008 hr
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

QV DEVICE NAME: FQD18N20V2TM

RMS: 90867

PACKAGE: DPAK

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 hr
HTSL	JESD22-A103	Ta=150°C	1008 hr
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	
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

Estimated date for qualification completion: 20 November 2023

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
FQD18N20V2TM	FQD18N20V2TM
FQD8P10TM	FQA36P15, FQD18N20V2TM
FDMC2523P	FQA36P15, FQD18N20V2TM
PCFQ4P40W	FQA36P15
FQT5P10TF	FQA36P15
FQPF7P20	FQA36P15
FQPF47P06	FQA36P15



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FQPF27P06	FQA36P15
FQP47P06	FQA36P15
FQP27P06	FQA36P15
FQP17P06	FQA36P15
FQD5P20TM	FQA36P15
FQD2P40TM	FQA36P15
FQD17P06TM	FQA36P15
FQD11P06TM	FQA36P15
FQB34P10TM	FQA36P15
FQB22P10TM	FQA36P15
FQB12P20TM	FQA36P15