



Title of Change:	Qualification of alternative irradiation site at BGS Germany for CZ4 FRD 600V/650V/1200V discrete devices.													
Proposed First Ship date:	28 Aug 2020 or earlier if approved by customer													
Contact Information:	Contact your local ON Semiconductor Sales Office or Dong.Ta@onsemi.com													
PCN Samples Contact:	Contact your local ON Semiconductor Sales Office or PCN.samples@onsemi.com 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.													
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or xiaohu.zhang@onsemi.com													
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. ON Semiconductor will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com													
Marking of Parts/ Traceability of Change:	No change in marking													
Change Category:	Wafer Fab Change													
Change Sub-Category(s):	Manufacturing Site Addition													
Sites Affected:														
ON Semiconductor Sites		External Foundry/Subcon Sites												
None		BGS Beta Gamma Services, Germany												
Description and Purpose:														
This FPCN announces the addition of alternate irradiation site at BGS, Germany for CZ4 FRD 600V/650V/1200V discrete devices to increase capacity and manufacturing flexibility.														
<table border="1"> <thead> <tr> <th>Item to be changed</th> <th>Irradiation Site Before Change Description</th> <th colspan="3">Irradiation Site After Change Description</th> </tr> </thead> <tbody> <tr> <td>Alternate Irradiation Site</td> <td>Sterigenics, USA</td> <td colspan="3">BGS, Germany Sterigenics, USA</td> </tr> </tbody> </table>					Item to be changed	Irradiation Site Before Change Description	Irradiation Site After Change Description			Alternate Irradiation Site	Sterigenics, USA	BGS, Germany Sterigenics, USA		
Item to be changed	Irradiation Site Before Change Description	Irradiation Site After Change Description												
Alternate Irradiation Site	Sterigenics, USA	BGS, Germany Sterigenics, USA												
Reliability Data Summary:														
QV1 DEVICE NAME: <u>NGTB50N65FL2WG</u>														
RMS# : <u>64894</u>														
PACKAGE : <u>TO-247</u>														
<table border="1"> <thead> <tr> <th>Test</th> <th>Specification</th> <th>Condition</th> <th>Interval</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>HTRB</td> <td>JESD22-A108</td> <td>Tjmax=150°C, 80% max rated V</td> <td>168hrs</td> <td><u>0/160</u></td> </tr> </tbody> </table>					Test	Specification	Condition	Interval	Results	HTRB	JESD22-A108	Tjmax=150°C, 80% max rated V	168hrs	<u>0/160</u>
Test	Specification	Condition	Interval	Results										
HTRB	JESD22-A108	Tjmax=150°C, 80% max rated V	168hrs	<u>0/160</u>										



QV2 DEVICE NAME: NGTB15N60S1EG

RMS# : 64898

PACKAGE : TO-247

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tjmax=150°C, 80% max rated V	168hrs	<u>0/160</u>

QV3 DEVICE NAME: NGTB25N120FL2WG

RMS# : 64897

PACKAGE : TO-247

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tjmax=150°C, 80% max rated V	168hrs	<u>0/80</u>

QV4 DEVICE NAME: NGTB40N120FL2WG

RMS# : 64895

PACKAGE : TO-247

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tjmax=150°C, 80% max rated V	168hrs	<u>0/160</u>

Electrical Characteristics Summary:

Electrical characteristics are not impacted.

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
NGTB75N65FL2WG	NGTB50N65FL2WG
NGTB50N60L2WG	NGTB50N65FL2WG
NGTB50N65FL2WG	NGTB50N65FL2WG
NGTB60N65FL2WG	NGTB50N65FL2WG
NGTB35N60FL2WG	NGTB50N65FL2WG
NGTB35N65FL2WG	NGTB50N65FL2WG



NGTB40N65FL2WG	NGTB50N65FL2WG
NGTB40N60L2WG	NGTB50N65FL2WG
NGTB50N65FL2WAG	NGTB50N65FL2WG
NGTB15N60S1EG	NGTB15N60S1EG
NGTB25N120FL2WG	NGTB25N120FL2WG
NGTB30N120SWG	NGTB25N120FL2WG
NGTB40N120FL2WAG	NGTB40N120FL2WG
NGTB40N120FL2WG	NGTB40N120FL2WG
NGTB50N120FL2WG	NGTB40N120FL2WG
NGTB30N120FL2WG	NGTB40N120FL2WG
NGTB40N120S3WG	NGTB40N120FL2WG
NGTB15N120FL2WG	NGTB40N120FL2WG



Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NGTB75N65FL2WG		NGTB50N65FL2WG	NA	
NGTB35N65FL2WG		NGTB50N65FL2WG	NA	
NGTB40N65FL2WG		NGTB50N65FL2WG	NA	
NGTB40N60L2WG		NGTB50N65FL2WG	NA	
NGTB15N60S1EG		NGTB15N60S1EG	NA	
NGTB25N120FL2WG		NGTB25N120FL2WG	NA	
NGTB40N120FL2WAG		NGTB40N120FL2WG	NA	
NGTB40N120FL2WG		NGTB40N120FL2WG	NA	
NGTB50N120FL2WG		NGTB40N120FL2WG	NA	
NGTB30N120FL2WG		NGTB40N120FL2WG	NA	
NGTB40N120S3WG		NGTB40N120FL2WG	NA	
NGTB15N120FL2WG		NGTB40N120FL2WG	NA	
NGTB60N65FL2WG		NGTB50N65FL2WG	NA	
NGTB35N60FL2WG		NGTB50N65FL2WG	NA	