


PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	ADG/18/10783	
1.3 Title of PCN	SiC MOSFET 1200V Gen1 Transfer from Catania 4" to Catania 6"	
1.4 Product Category	SiC MOSFET	
1.5 Issue date	2018-03-18	

2. PCN Team

2.1 Contact supplier	
2.1.1 Name	ROBERTSON HEATHER
2.1.2 Phone	+1 8475853058
2.1.3 Email	heather.robertson@st.com
2.2 Change responsibility	
2.2.1 Product Manager	Maurizio Maria FERRARA
2.1.2 Marketing Manager	Michele MACAUDA
2.1.3 Quality Manager	Vincenzo MILITANO

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
General	Wafer diameter modification	Catania

4. Description of change

	Old	New
4.1 Description	Current production: Catania 4 inch Fab - Wafer diameter 4 inch	New production: Catania 6 inch Fab - Wafer diameter 6 inch
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	No Impact	

5. Reason / motivation for change

5.1 Motivation	Capacity Extension and improvement in Flexibility to better manage the customer orders
5.2 Customer Benefit	CAPACITY INCREASE

6. Marking of parts / traceability of change

6.1 Description	by Q.A. number
------------------------	----------------

7. Timing / schedule

7.1 Date of qualification results	2018-03-16
7.2 Intended start of delivery	2018-06-17
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description	10783 Rel03B-18.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2018-03-18

9. Attachments (additional documentations)

10783 Public product.pdf
 10783 PCN - SiC MOSFET 1200V Transfer from Catania 4 inch to Catania 6 inch FAB_1.doc
 10783 Rel03B-18.pdf

10. Affected parts		
10.1 Current		10.2 New (if applicable)
10.1.1 Customer Part No	10.1.2 Supplier Part No	10.1.2 Supplier Part No
	SCT10N120	
	SCT20N120	
	SCT30N120	
	SCT50N120	

IMPORTANT NOTICE – PLEASE READ CAREFULLY

STMicroelectronics NV and its subsidiaries (“ST”) reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST’s terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers’ products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2016 STMicroelectronics – All rights reserved

Automotive Discrete Group (ADG)
Power Transistor Division

Process Change Notification

SiC MOSFET 1200V Gen1 Transfer from Catania 4" to Catania 6"

Dear Customer,

Following the continuous improvement of our service and in order to increase productivity, we are pleased to announce that *SiC MOSFET 1200V Gen 1* technology wafers, currently manufactured in Catania 4 inch FAB, will be performed in Catania 6 inch FAB.

Wafers produced in Catania 6 inch FAB, guarantee the same quality and electrical characteristics as per current production.

In the next pages, we are reporting the qualification plan to reach full maturity.

The change has been classified as **Class 1** according to the ZVEI and ST internal rules.

Assessment of impact on Supply Chain regarding following aspects		Remaining risks on Supply Chain?	
- contractual agreements - technical interface of processability / manufacturability of customer - form, fit, function, quality performance, reliability			
ID	Type of change	No	Yes
SEM-PW-02	New wafer diameter	P	P
SEM-PW-03	New final wafer thickness	P	P

The qualification of the change will be completed according the qualification plan reported in the following pages; the first results are reported in the attached file

Sincerely Yours!

<i>Tech name</i> SiC MOSFET 1200V Transfer from Catania 4" to Catania 6"																			
ST Part number:	ST PNs: <i>Catania 6 inch FAB</i> Package: All the Packages																		
Reason and background of the change	To increase flexibility and increase Capacity																		
Detailed description of change(s), including affected type of changes	The Diffusion Process Catania 4 inch, will be performed in Catania 6 inch FAB.																		
Impact on form, fit, function, or reliability.	No Impact																		
Datasheet	No Impact – No Change																		
Benefit of the change	Capacity and flexibility increase.																		
Qualification Plan and Implementation date for change	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Test Vehicles</th> <th>N. of Lots</th> <th>Reliability Plan</th> <th>Parametric Verification</th> <th>Forecast (wk)</th> </tr> </thead> <tbody> <tr> <td>SCTWA50N120</td> <td>1</td> <td rowspan="3">JEDEC Compliant & ST spec 0061692</td> <td style="text-align: center;">X</td> <td>DONE</td> </tr> <tr> <td>SCT30N120H</td> <td>1</td> <td style="text-align: center;">X</td> <td>21/2018</td> </tr> <tr> <td>SCT30N120</td> <td>1</td> <td style="text-align: center;">X</td> <td>13/2018</td> </tr> </tbody> </table> <p style="margin-left: 40px;">Planned Implementation Date → wk 21 2018</p>	Test Vehicles	N. of Lots	Reliability Plan	Parametric Verification	Forecast (wk)	SCTWA50N120	1	JEDEC Compliant & ST spec 0061692	X	DONE	SCT30N120H	1	X	21/2018	SCT30N120	1	X	13/2018
Test Vehicles	N. of Lots	Reliability Plan	Parametric Verification	Forecast (wk)															
SCTWA50N120	1	JEDEC Compliant & ST spec 0061692	X	DONE															
SCT30N120H	1		X	21/2018															
SCT30N120	1		X	13/2018															
Traceability Info	By QA Number																		
PPAP Update	NA																		