


PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	POWER AND DISCRETE PRODUCTS/24/14727	
1.3 Title of PCN	VIPower® products in TO220: Activation of TONGKE Back-End Plant	
1.4 Product Category	see list	
1.5 Issue date	2024-05-20	

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	Rosario RUGGERI
2.1.2 Marketing Manager	Carmelo PISTRITTO
2.1.3 Quality Manager	Daniela FAZIO

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Transfer	Line transfer for a full process or process brick (process step, control plan, recipes) from one site to another site: Assembly site (SOP 2617)	Subcon TONGKE - China - Receiving Plant

4. Description of change

	Old	New
4.1 Description	ST Shenzhen Assy and Final Test Location	Subcon TONGKE Assy and Final Test Location
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	No Impact	

5. Reason / motivation for change

5.1 Motivation	Service Continuity
5.2 Customer Benefit	SERVICE CONTINUITY

6. Marking of parts / traceability of change

6.1 Description	Dedicated Finished Good Codes
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7. Timing / schedule

7.1 Date of qualification results	2024-04-22
7.2 Intended start of delivery	2024-07-01
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description	14727 RERLVIP24013_1.0_VIPower M02 and M03_TO220 transfer from STS to TFME Tongke.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2024-05-20

9. Attachments (additional documentations)

14727 Public product.pdf
 14727 Details.pdf
 14727 RERLVIP24013_1.0_VIPower M02 and M03_TO220 transfer from STS to TFME Tongke.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
	VNP10N07-E	
	VNP20N07-E	
	VNP35N07-E	

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life.augmented

Discontinuity of Back-End production line at ST SHENZHEN plant for all VIPower® products in TO220 Power (DZ package code).

Assembly and Final Test Transfer to TONGKE subcontractor plant

Agenda

3 Change Description

5 Product lines impacted

4 ZVEI Guidelines

6 Conclusions

Change description

- Aim of this document is to describe the activity performed to qualify the VIPower® products assembled in TO220 Power (DZ package code) in the TONGKE subcontractor plant.
- This report shows the qualification activity done to ensure the same quality and electrical characteristics of the VIPower® belonging to the LViP Division assembled in TO220 Power(DZ package code), currently assembled in SHENZHEN plant.
- In the TONGKE subcontractor plant we will use the same assembly machine of SHENZHEN and maintain the same Bill of materials for each products.
- All reliability tests have been completed with positive results.

ZVEI Guidelines

- According to ZVEI recommendations, the notification is required.

		Assessment of impact on Supply Chain regarding following aspects - contractual agreements - technical interface of processability/manufacturability of customer - form, fit, function, quality performance, reliability	Remaining risks within Supply Chain?		Understanding of semiconductors experts	Examples to explain
	ID	Type of change	No	Yes		
		ANY				
		DATA SHEET				
		DESIGN				
		PROCESS - WAFER PRODUCTION				
		BARE DIE				
		PROCESS - ASSEMBLY				
x	SEM-PA-18	Move all or parts of production to a different assembly site.	P	P	Assembly transfer or relocation. Includes transfer as well as additional site.	e.g. dual source / fab strategy
		PACKING/SHIPPING				
		EQUIPMENT				
		TEST FLOW				
x	SEM-TF-01	Move of all or part of electrical wafer test and/or final test to a different test site.	P	P	Tester transfer or relocation. Check impact on SEM-AN-01 Includes transfer as well as additional site.	Dual source strategy

Mosfet Product lines impacted

VIPOWER® products assembled in TO220 Power (DZ package code

- Commercial Product: VNP35N07-E (Silicon Line VN1901) → Test Vehicle
- Commercial Product : VN1160T-E (Silicon Line VN5801) → Test Vehicle
- Commercial Product : VNP20N07-E (Silicon Line VN2901)
- Commercial Product : VNP10N07-E (Silicon Line VN3901)

Conclusions

- Detailed qualification activity has been performed in order to qualify the VIPower® products assembled in TO220 Power (DZ package code) in the TONGKE subcontractor plant.
- All reliability tests have been completed with positive results.
- This report shows the positive results achieved, ensuring the same quality and electrical characteristics as the current production in Shenzhen ST plant.



Public Products List

Public Products are off the shelf products. They are not dedicated to specific customers, they are available through ST Sales team, or Distributors, and visible on ST.com

PCN Title : VIPower® products in TO220: Activation of TONGKE Back-End Plant

PCN Reference : POWER AND DISCRETE PRODUCTS/24/14727

Subject : Public Products List

Dear Customer,

Please find below the Standard Public Products List impacted by the change.

VNP10N07-E	VNP35N07-E	VNP20N07-E
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Reliability Evaluation Report

RERLVIP24013

Package TO220 transfer from ST Shenzhen to TFME Tongke

VIPower M02 and M03

Release	Date	Author	Function
1	April 24 th , 2024	A. Vilaro	APMS Q&R – Catania

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