

PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	AMS/21/13153	
1.3 Title of PCN	Power Management BU: Alternative die for TL431AIL3T and TL432AIL3T	
1.4 Product Category	See product list	
1.5 Issue date	2021-12-20	

2. PCN Team

2.1 Contact supplier	
2.1.1 Name	NEMETH KRISZTINA
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2.2 Change responsibility	
2.2.1 Product Manager	Marcello SAN BIAGIO
2.1.2 Marketing Manager	Salvatore DI VINCENZO
2.1.3 Quality Manager	Giuseppe LISI

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
General Product & Design	Die redesign: Mask or mask set change with new die design - Design changes in active elements.	Front end plant : ST Singapore

4. Description of change

	Old	New
4.1 Description	Mask Set 0431H rev B	Mask Set M431A rev A
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Yield Improvements. No impact on Quality and Reliability Characteristics on final product	

5. Reason / motivation for change

5.1 Motivation	Following ST's commitment toward a continuous improvement philosophy, we are pleased to announce the introduction of an alternative die, using the same technology (HBIP40) and same wafer fab (ST AMK Singapore) for the Voltage references TL431AIL3T and TL432AIL3T. This change will increase our manufacturing flexibility and allow us to improve our customer delivery support.
5.2 Customer Benefit	MANUFACTURING FLEXIBILITY

6. Marking of parts / traceability of change

6.1 Description	The traceability of the new parts will be ensured by different internal codification and QA number
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7. Timing / schedule

7.1 Date of qualification results	2021-12-03
7.2 Intended start of delivery	2022-03-25
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description	13153 W1258-2020-TL431 SOT23 3L.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2021-12-20

9. Attachments (additional documentations)

13153 Public product.pdf
13153 W1258-2020-TL431 SOT23 3L.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
	TL431AIL3T	

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