

PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	ADG/19/11566	
1.3 Title of PCN	Mold compound replacement for ISOTOP industrial	
1.4 Product Category	Automotive rectifiers in ISOTOP package. STPSxxx and STTHxxx series	
1.5 Issue date	2019-05-20	

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	Richard RENARD
2.1.2 Marketing Manager	Philippe LEGER
2.1.3 Quality Manager	Jean-Paul REBRASSE

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Materials	New direct material part number (same supplier, different supplier or new supplier), Mold compound	ST assy site in Morocco

4. Description of change

	Old	New
4.1 Description	Samsung SDI product termination of the following references of molding compound for through hole packages	Replacement of current mold compounds with alternative material. ST is already proceeding with new resins evaluation and qualification, to guarantee adequate products continuity.
4.2 Anticipated Impact on form, fit, function, quality, reliability or processability?	no	

5. Reason / motivation for change

5.1 Motivation	Product discontinuance from current supplier.
5.2 Customer Benefit	SERVICE CONTINUITY

6. Marking of parts / traceability of change

6.1 Description	internal codification and QA number
-----------------	-------------------------------------

7. Timing / schedule

7.1 Date of qualification results	2019-08-26
7.2 Intended start of delivery	2019-12-01
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description			
8.2 Qualification report and qualification results	In progress	Issue Date	

9. Attachments (additional documentations)		
11566 Public product.pdf 11566 PCN-ISOTOP industrial.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
STPS12045TV	STPS12045TV	
STPS120L15TV	STPS120L15TV	
STPS16045TV	STPS16045TV	
STPS160H100TV	STPS160H100TV	
STPS200170TV1	STPS200170TV1	
STPS24045TV	STPS24045TV	
STPS80H100TV	STPS80H100TV	
	STTH10002TV1	
	STTH10002TV2	
	STTH12010TV1	
	STTH12012TV1	
STTH120L06TV1	STTH120L06TV1	
	STTH120R04TV1	
STTH16003TV1	STTH16003TV1	
STTH20002TV1	STTH20002TV1	
STTH20003TV1	STTH20003TV1	
STTH20004TV1	STTH20004TV1	
	STTH200F04TV1	
	STTH200L04TV1	
STTH200L06TV1	STTH200L06TV1	
	STTH200R04TV1	
	STTH6006TV1	
STTH60L06TV1	STTH60L06TV1	
	STTH6110TV1	
	STTH6110TV2	
	STTH61R04TV2	
	STTH9012TV1	
	STTH9012TV2	

IMPORTANT NOTICE – PLEASE READ CAREFULLY

Subject to any contractual arrangement in force with you or to any industry standard implemented by us, 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.

© 2018 STMicroelectronics – All rights reserved

(1) ADG: Automotive and Discrete Group

PCN Product/Process Change Notification			
Mold compound replacement for ISOTOP industrial			
Notification number:	ADG-DIS/19/11566	Issue Date	14/05/2019
Issued by	Aline Augis		
Product series affected by the change		Automotive rectifiers in ISOTOP package. STPSxxx and STTHxxx series	
Type of change		Back end realization	
Description of the change Following 11478 Early Notification sent in Week 15-2019, the change is the mold compound replacement for ISOTOP package.			
Reason for change Product discontinuance from current supplier.			
Former versus changed product:		Confirm each statement: The changed products do not present modified electrical, dimensional or thermal parameters, leaving unchanged the current information published in the product datasheet The footprint recommended by ST remains the same. There is no change in the packing modes and the standard delivery quantities either. The products remain in full compliance with the ST ECOPACK®2 grade ("halogen-free").	
Disposition of former products Delivery of current product will be done until stock depletion.			
Marking and traceability No change of marking. Traceability through new finished good codes (printed on labels).			
Qualification forecasted date		Week 35-2019	
Forecasted sample availability Samples will be available on demand with a typical lead time of 5 weeks after order entry.			

(1) ADG: Automotive and Discrete Group

Change implementation schedule

Sales types	Estimated production start	Estimated first shipments
All Commercial Products	Week 36-2019	Week 49-2019

Comments: With early PCN acceptance, possible shipment starting on W37 on selected part numbers.

Customer's feedback

Please contact your local ST sales representative or quality contact for requests concerning this change notification.

Absence of acknowledgement of this PCN within 30 days of receipt will constitute acceptance of the change

Absence of additional response within 90 days of receipt of this PCN will constitute acceptance of the change

Qualification program:

Qualification will be performed through a global plan with the following Product Test Vehicles.

PTV (FG) - ISOTOP
STTH6112TV1H/Z (Non-auto)
YPS200170TV16H%7 (Automotive)
STTH16003TV1-H/Z (Non-auto)

Reliability tests will be conducted following below table.

Stress	Abrv	Reference
High Temperature Reverse Bias	HTRB	MIL-STD-750-1 M1038 Method A (for diodes, rectifiers)
AC blocking voltage	ACBV	MIL-STD-750-1 M1040 Test condition A (for SCR)
High Humidity High Temperature Reverse Bias	H3TRB	JESD22A-101
Unbiased Highly Accelerated Stress Test	UHAST	JESD22A-118 or A101
Temperature Cycling	TC	JESD22A-104
Intermittent Operational Life / Thermal Fatigue	IOL	MIL-STD-750 Method 1037
Destructive Physical Analysis	DPA	AEC-Q101-004 Section 4



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 : Mold compound replacement for ISOTOP industrial

PCN Reference : ADG/19/11566

Subject : Public Products List

Dear Customer,

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

STTH6110TV2	STTH200F04TV1	STTH16003TV1
STTH200R04TV1	STTH200L04TV1	STPS12045TV
STTH6110TV1	STTH20004TV1	STTH10002TV2
STTH60L06TV1	STTH20003TV1	STTH12003TV1
STTH240F04TV1	STTH9012TV1	STTH61R04TV2
STTH200L06TV1	STTH120L06TV1	STTH6006TV1
STTH20002TV1	STPS80H100TV	STPS160H100TV
STTH12010TV1	STPS16045TV	STTH9012TV2
STTH10002TV1	STPS24045TV	STTH120R04TV1
STTH12012TV1	STPS200170TV1	STPS120L15TV



IMPORTANT NOTICE – PLEASE READ CAREFULLY

Subject to any contractual arrangement in force with you or to any industry standard implemented by us, 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.