



PRODUCT/PROCESS CHANGE NOTIFICATION

PCN APG-BAD/12/7166
Notification Date 04/11/2012

VIpower Products housed in PowerSO-10: Migration to Lead-Free

Table 1. Change Implementation Schedule

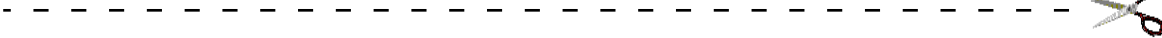
Forecasted implementation date for change	31-Jul-2012
Forecasted availability date of samples for customer	04-Apr-2012
Forecasted date for STMicroelectronics change Qualification Plan results availability	04-Apr-2012
Estimated date of changed product first shipment	31-Jul-2012

Table 2. Change Identification

Product Identification (Product Family/Commercial Product)	see enclosed list
Type of change	Package assembly material change
Reason for change	European Directive 2002/95/E
Description of the change	Due to European Directive 2002/95/EC (RoHS - Restriction of use of certain Hazardous Substances), ST strongly recommend You to start considering the swap of your VIPower orders from the Lead Present devices to the correspondent Lead Free ones.
Product Line(s) and/or Part Number(s)	See attached
Description of the Qualification Plan	See attached
Change Product Identification	Ecopak logo "E"
Manufacturing Location(s)	

Table 3. List of Attachments

Customer Part numbers list	
Qualification Plan results	



Customer Acknowledgement of Receipt		PCN APG-BAD/12/7166
Please sign and return to STMicroelectronics Sales Office		Notification Date 04/11/2012
<input type="checkbox"/> Qualification Plan Denied <input type="checkbox"/> Qualification Plan Approved <input type="checkbox"/> Change Denied <input type="checkbox"/> Change Approved	Name:	
	Title:	
	Company:	
	Date:	
	Signature:	
Remark		

DOCUMENT APPROVAL

Name	Function
Liporace, Nicola	Division Marketing Manager
Nicoloso, Riccardo	Division Product Manager
Minerva, Francesco	Division Q.A. Manager



Product Change Notification (PCN)

Dear Customer,
as You know, thanks to the huge capacity investments that ST has afforded over the past years, 2010 and H1 2011 have represented a tremendous growth for VIPower business.

However, despite a certain portion of VIPower production is still on the leaded products, ST has directed all the investments done on the VIPower Back End capacity only to the Lead Free lines.

This choice has been imposed by the European Directive 2002/95/EC (RoHS - Restriction of use of certain Hazardous Substances), which has recommended the dismissal of several hazardous substance, including the lead.

Because of the above-mentioned directive no capacity growth on the existing leaded lines will be ever allowed, meaning that those of You who still buy leaded products will not benefit, in terms of service, from this capacity increase. On top of that difficulties in supply of raw material and spare parts for Lead Present Assembly Lines may create in future delivery issue for all Leaded Parts.

For all these considerations Automotive Electronics Division strongly recommend You to start considering the swap of your VIPower orders from the Lead Present devices to the correspondent Lead Free ones.



Product Change Notification (PCN)

VIpower Products housed in PowerSO-10: Migration to Lead-Free

WHAT:

Due to European Directive 2002/95/EC (RoHS - Restriction of use of certain Hazardous Substances), ST strongly recommend You to start considering the swap of your VIpower orders from the Lead Present devices to the correspondent Lead Free ones.

WHY:

European Directive 2002/95/E

WHO:

All Customer using below list of products (Tape & Reel version only: Tube version will be not converted).

Line (internal)	Technology	Lead present version	Lead free version
V19Y01	M0.2	VNV49N0413TR	VNV49N04TR-E
V32501	M1.3	VB325SP13TR	VB325SPTR-E
V32601	M1.3	VB326SP13TR	VB326SPTR-E
V52503	M1.3	VB525SP13TR	VB525SPTR-E
VN0701	M0.2	VND05BSP13TR	VND05BSPTR-E
VN1001	M0.2	VND10BSP13TR	VND05BSPTR-E
VN1901	M0.2	VNV35N0713TR	VNV35N07TR-E
VN2901	M0.2	VNV20N0713TR	VNV20N07TR-E
VN3101	M0.2	VN31SP13TR	VN31SPTR-E
VN3801	M0.2	VN380SP13TR	VN380SPTR-E
VN4601	M0.2	VN460SP13TR	VN460SPTR-E
VN5301	M0.2	VN530SP13TR	VN530SPTR-E
VN6001	M0.3	VND600SP13TR	VND600SPTR-E
VN6101	M0.3	VN610SP13TR	VN610SPTR-E
VN6601	M0.3	VNQ660SP13TR	VNQ660SPTR-E
VN7601	M0.3	VNV35NV0413TR	VNV35NV04TR-E
VN8101	M0.3	VND810SP13TR	VND810SPTR-E
VN8201	M0.3	VN820SP13TR	VN820SPTR-E
VN8301	M0.3	VND830SP13TR	VND830SPTR-E
VN8801	M0.3	VND830MSP13TR	VND830MSPTR-E
VN9201	M0.3	VN920SP13TR	VN920SPTR-E
VN9501	M0.3	VN950SP13TR	VN950SPTR-E
VNA501	M0.3	VNQ05XSP1613TR	VNQ05XSP16TR-E
VNB601	M0.3	VN920DSP13TR	VN920DSPTR-E
VNC501	M0.3	VN575SP13TR	VN575SPTR-E
VNC601	M0.3	VND830ASP13TR	VND830ASPTR-E
VND101	M0.3	VND830LSP13TR	VND830LSPTR-E
VND501	M0.3	VNQ690SP13TR	VNQ690SPTR-E

WHEN:

We are ready to ship new parts immediately upon Customer agreement.
Additional information are available on demand

WHERE:

ST Bouskoura and Muar Plants.

Please Read Carefully:

Information in this document is provided solely in connection with ST products. STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, modifications or improvements, to this document, and the products and services described herein at any time, without notice.

All ST products are sold pursuant to ST's terms and conditions of sale.

Purchasers are solely responsible for the choice, selection and use of the ST products and services described herein, and ST assumes no liability whatsoever relating to the choice, selection or use of the ST products and services described herein.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted under this document. If any part of this document refers to any third party products or services it shall not be deemed a license grant by ST for the use of such third party products or services, or any intellectual property contained therein or considered as a warranty covering the use in any manner whatsoever of such third party products or services or any intellectual property contained therein.

UNLESS OTHERWISE SET FORTH IN ST'S TERMS AND CONDITIONS OF SALE ST DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY WITH RESPECT TO THE USE AND/OR SALE OF ST PRODUCTS INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION), OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

UNLESS EXPRESSLY APPROVED IN WRITING BY AN AUTHORIZED ST REPRESENTATIVE, ST PRODUCTS ARE NOT RECOMMENDED, AUTHORIZED OR WARRANTED FOR USE IN MILITARY, AIR CRAFT, SPACE, LIFE SAVING, OR LIFE SUSTAINING APPLICATIONS, NOR IN PRODUCTS OR SYSTEMS WHERE FAILURE OR MALFUNCTION MAY RESULT IN PERSONAL INJURY, DEATH, OR SEVERE PROPERTY OR ENVIRONMENTAL DAMAGE. ST PRODUCTS WHICH ARE NOT SPECIFIED AS "AUTOMOTIVE GRADE" MAY ONLY BE USED IN AUTOMOTIVE APPLICATIONS AT USER'S OWN RISK.

Resale of ST products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by ST for the ST product or service described herein and shall not create or extend in any manner whatsoever, any liability of ST.

ST and the ST logo are trademarks or registered trademarks of ST in various countries.

Information in this document supersedes and replaces all information previously supplied.

The ST logo is a registered trademark of STMicroelectronics. All other names are the property of their respective owners

©2012 STMicroelectronics - All rights reserved.

STMicroelectronics group of companies

Australia - Belgium - Brazil - Canada - China - Czech Republic - Finland - France - Germany - Hong Kong - India - Israel - Italy - Japan - Malaysia - Malta - Morocco - Singapore - Spain - Sweden - Switzerland - United Kingdom - United States of America

www.st.com

