



Product Change Notification



Product Group: Diodes Division / July 28, 2015 / PCN-DD-026-2015 Rev. 0

6-inch Wafer Geometry Conversion for Automotive Grade Planar Schottky Products and Strip Plating Implementation for SMA, SMB & SMPC Packages

DESCRIPTION OF CHANGE : Vishay Diodes Division will change wafer diameter from 4 inch to 6 inch for automotive grade of 100V planar Schottky products in SMA/SMB/SMC/SMP/SMPC/TO-220/ITO-220 packages and 30V/40V/60V planar Schottky products in MicroSMP package. In addition to this wafer diameter change, the plating method for SMA, SMB & SMPC lead finishing will be converted from barrel to strip plating.

Qualification test has been confirmed to meet and pass all specifications for automotive grade. There will be no change in form, fit or function of final products.

CLASSIFICATION OF CHANGE : Wafer diameter and Plating scheme.

REASON FOR CHANGE : Capacity expansion and delivery improvement and the strip plating for better plating skin uniformity.

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE :

Better plating thickness uniformity, no change in other quality and reliability performance.

PRODUCT CATEGORY : Rectifier

PART NUMBERS/SERIES/FAMILIES AFFECTED : Involved part numbers are listed in below table.

➤ 6-inch wafer + strip plating conversion

Case Outline	Existing P/N	New Revision P/N	Case Outline	Existing P/N	New Revision P/N
SMA	BYS11-90HE3/TR	BYS11-90HE3_A/H	SMPC	SS10PH9HM3/86A	SS10PH9HM3_A/H
SMA	BYS11-90HE3/TR3	BYS11-90HE3_A/I	SMPC	SS10PH9HM3/87A	SS10PH9HM3_A/I
SMA	BYS12-90HE3/TR	BYS12-90HE3_A/H	SMPC	SS5P10-61HM3J/86A	SS5P10-61HM3J_A/H
SMA	BYS12-90HE3/TR3	BYS12-90HE3_A/I	SMPC	SS5P10HM3/86A	SS5P10HM3_A/H
SMB	SS210HE3/52T	SS210HE3_A/H	SMPC	SS5P10HM3/87A	SS5P10HM3_A/I
SMB	SS210HE3/5BT	SS210HE3_A/I	SMPC	SS5P9HM3/86A	SS5P9HM3_A/H
SMB	SS29HE3/52T	SS29HE3_A/H	SMPC	SS5P9HM3/87A	SS5P9HM3_A/I
SMB	SS29HE3/5BT	SS29HE3_A/I	SMPC	SS8PH10-BHM3/86A	SS8PH10HM3_A/H
SMB	SS2H10HE3/52T	SS2H10HE3_A/H	SMPC	SS8PH10-BHM3/87A	SS8PH10HM3_A/I
SMB	SS2H10HE3/5BT	SS2H10HE3_A/I	SMPC	SS8PH10HM3/86A	SS8PH10HM3_A/H
SMB	SS2H9HE3/52T	SS2H9HE3_A/H	SMPC	SS8PH10HM3/87A	SS8PH10HM3_A/I
SMB	SS2H9HE3/5BT	SS2H9HE3_A/I	SMPC	SS8PH9HM3/86A	SS8PH9HM3_A/H
SMPC	SS10PH10HM3/86A	SS10PH10HM3_A/H	SMPC	SS8PH9HM3/87A	SS8PH9HM3_A/I
SMPC	SS10PH10HM3/87A	SS10PH10HM3_A/I			



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➤ 6-inch wafer conversion

Case Outline	Existing P/N	New Revision P/N	Case Outline	Existing P/N	New Revision P/N
MicroSMP	MSS1P2LHM3/89A	MSS1P2LHM3_A/H	SMC	SS3H9HE3_A/I	SS3H9HE3_B/I
MicroSMP	MSS1P3HM3/89A	MSS1P3HM3_A/H	SMP	SS2PH10HM3/84A	SS2PH10HM3_A/H
MicroSMP	MSS1P3LHM3/89A	MSS1P3LHM3_A/H	SMP	SS2PH10HM3/85A	SS2PH10HM3_A/I
MicroSMP	MSS1P4HM3/89A	MSS1P4HM3_A/H	SMP	SS2PH9HM3/84A	SS2PH9HM3_A/H
MicroSMP	MSS1P4HM3J/89A	MSS1P4HM3J_A/H	SMP	SS2PH9HM3/85A	SS2PH9HM3_A/I
MicroSMP	MSS1P5HM3/89A	MSS1P5HM3_A/H	SMP	SS2PH9HM3J/84A	SS2PH9HM3J_A/H
MicroSMP	MSS1P6-61HM3J/89A	MSS1P6-61HM3J_A/H	TO-220	MBR10H100CTHE3/45	M10H100CTHE3_A/P
MicroSMP	MSS1P6HM3/89A	MSS1P6HM3_A/H	TO-220	MBR20H100CTHE3/45	M20H100CTHE3_A/P
MicroSMP	MSS1P6HM3J/89A	MSS1P6HM3J_A/H	TO-220	MBR30H100CTHE3/45	M30H100CTHE3_A/P
MicroSMP	MSS2P2HM3/89A	MSS2P2HM3_A/H	TO-220	MBR10H100HE3/45	M10H100HE3_A/P
MicroSMP	MSS2P3HM3/89A	MSS2P3HM3_A/H	TO-220	MBR20H90CTHE3/45	M20H90CTHE3_A/P
SMA	SS1H10-001HE3_A/I	SS1H10-001HE3_B/I	TO-220	MBR10H90CTHE3/45	M10H90CTHE3_A/P
SMA	SS1H10HE3_A/H	SS1H10HE3_B/H	TO-220	MBR30H90CTHE3/45	M30H90CTHE3_A/P
SMA	SS1H10HE3_A/I	SS1H10HE3_B/I	TO-220	MBR10H90HE3/45	M10H90HE3_A/P
SMA	SS1H9-001HE3_A/I	SS1H9-001HE3_B/I	ITO-220	MBRF10H100CTHE3/45	MF10H100CTHE3_A/P
SMA	SS1H9HE3_A/H	SS1H9HE3_B/H	ITO-220	MBRF20H100CTHE3/45	MF20H100CTHE3_A/P
SMA	SS1H9HE3_A/I	SS1H9HE3_B/I	ITO-220	MBRF30H100CTHE3/45	MF30H100CTHE3_A/P
SMC	SS3H10-71CHE3_A/I	SS3H10-71CHE3_B/I	ITO-220	MBRF10H100HE3/45	MF10H100HE3_A/P
SMC	SS3H10HE3_A/H	SS3H10HE3_B/H	ITO-220	MBRF10H90CTHE3/45	MF10H90CTHE3_A/P
SMC	SS3H10HE3_A/I	SS3H10HE3_B/I	ITO-220	MBRF20H90CTHE3/45	MF20H90CTHE3_A/P
SMC	SS3H9-003HE3_A/I	SS3H9-003HE3_B/I	ITO-220	MBRF30H90CTHE3/45	MF30H90CTHE3_A/P
SMC	SS3H9HE3_A/H	SS3H9HE3_B/H	ITO-220	MBRF10H90HE3/45	MF10H90HE3_A/P

VISHAY BRAND : Vishay General Semiconductor

TIME SCHEDULE : Start shipment date : October 30, 2015

Last time buy of existing P/N : January 31, 2016

Last time ship of existing P/N : July 31, 2016

SAMPLE AVAILABILITY : Available upon request.

PRODUCT IDENTIFICATION : Adding underscore (_) + revision code "X (X=A, B,...)" following by the base part number as the identification. Meanwhile, the package code will be simplified as communicated already in Fast Fact # FF-DD-002-2015 issued in April 2015 for details.

QUALIFICATION DATA : Available upon request.



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RESPONSE DATE : This PCN is considered approved, without further notification, unless we receive specific customer concerns before **October 28, 2015** or as specified by contract.

ISSUED BY :

R.S. Chin, Product Marketing Director – Rectifiers (Standard & Schottky)

For further information, please contact your regional Vishay office.

Contact Information:

The Americas

Vishay Semiconductors
150 Motor Parkway, Suite 101E
Hauppauge, NY11788 USA
Phone :631 300 3816
Fax : 631 300 3843
Diodes-Americas@vishay.com

Europe

Vishay Semiconductors
Theresienstrasse 2
D-74072 Heilbronn, Germany
Phone : +49 7131 67 3364 (or 3365)
Fax: +49 7131 67 2938
Diodes-Europe@vishay.com

Asia

Vishay Semiconductors
15D, Sun Tong Infoport Plaza
55 Huai Hai West Road, Shanghai, China
Phone: +86 138 1787 2112
Fax: +86 21 5258 7979
Diodes-Asia@vishay.com