



TO-263 Schottky Rectifier 6-inch Wafer Conversion and process consolidation for Automotive Grade

DESCRIPTION OF CHANGE:

Vishay Diodes Division would like to announce the following changes on TO-263 packaged Schottky Rectifier automotive grade products:

1. The silicon wafer diameter of 100V planar Schottky products will be changed from 4 inch to 6 inch.
2. Solder paste composition will be changed from 88%Pb/2%Ag/10%Sn to 92.5%Pb/2.5%Ag/5%Sn.
3. MBRB15(H)XXCTHE3 and MBRB7XXHE3 series products' clip size for device inner soldering will be optimized (change from 42*42mil to 34*34mil)

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 for use in customer site.

CLASSIFICATION OF CHANGE:

Direct Materials; Wafer diameter; Assembly Process/Structure

REASON FOR CHANGE:

Material consolidation/optimization, capacity expansion and delivery improvement.

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE:

No change in quality and reliability performance

PRODUCT CATEGORY: Rectifier

PART NUMBERS/SERIES/FAMILIES AFFECTED:

TO-263 packaged Schottky rectifier products with "HE3" suffix. Details please refer to attached PN list.

Note: House number will adopt P/N change following the new revision P/N rule.

➤ Solder Paste change+ the clip size optimize

Existing P/N	New Revision P/N	Existing P/N	New Revision P/N
MBRB1535CTHE3/45	MBRB1535CTHE3_A/P	MBRB15H60CTHE3/81	MBRB15H60CTHE3_A/I
MBRB1535CTHE3/81	MBRB1535CTHE3_A/I	MBRB735HE3/45	MBRB735HE3_A/P
MBRB1545CTHE3/45	MBRB1545CTHE3_A/P	MBRB735HE3/81	MBRB735HE3_A/I
MBRB1545CTHE3/81	MBRB1545CTHE3_A/I	MBRB745HE3/45	MBRB745HE3_A/P
MBRB1560CTHE3/45	MBRB1560CTHE3_A/P	MBRB745HE3/81	MBRB745HE3_A/I
MBRB1560CTHE3/81	MBRB1560CTHE3_A/I	MBRB750HE3/45	MBRB750HE3_A/P
MBRB15H45CTHE3/45	MBRB15H45CTHE3_A/P	MBRB750HE3/81	MBRB750HE3_A/I
MBRB15H45CTHE3/81	MBRB15H45CTHE3_A/I	MBRB760HE3/45	MBRB760HE3_A/P
MBRB15H60CTHE3/45	MBRB15H60CTHE3_A/P	MBRB760HE3/81	MBRB760HE3_A/I



Product Change Notification



Product Group: Diodes Division /October 20, 2016 / PCN-DD-020-2016 Rev 0

➤ Solder Paste +6" wafer change

Existing P/N	New Revision P/N
MBRB10H100CTHE3/45	MB10H100CTHE3_A/P
MBRB10H100CTHE3/81	MB10H100CTHE3_A/I
MBRB10H100HE3/45	MB10H100HE3_A/P
MBRB10H100HE3/81	MB10H100HE3_A/I
MBRB10H90CTHE3/45	MB10H90CTHE3_A/P
MBRB10H90CTHE3/81	MB10H90CTHE3_A/I
MBRB10H90HE3/45	MB10H90HE3_A/P
MBRB10H90HE3/81	MB10H90HE3_A/I

Existing P/N	New Revision P/N
MBRB20H100CTHE3/45	MB20H100CTHE3_A/P
MBRB20H100CTHE3/81	MB20H100CTHE3_A/I
MBRB20H90CTHE3/45	MB20H90CTHE3_A/P
MBRB20H90CTHE3/81	MB20H90CTHE3_A/I
MBRB30H100CTHE3/45	MB30H100CTHE3_A/P
MBRB30H100CTHE3/81	MB30H100CTHE3_A/I
MBRB30H90CTHE3/45	MB30H90CTHE3_A/P
MBRB30H90CTHE3/81	MB30H90CTHE3_A/I

➤ Solder Paste change

Existing P/N	New Revision P/N
MB2045C-61HE3J/81	MB2045C-61HE3J_A/I
MB30H45C-61HE3J/81	MB30H45C61HE3J_A/I
MBRB1045-001HE3/81	MBRB1045001HE3_A/I
MBRB1045HE3/45	MBRB1045HE3_A/P
MBRB1045HE3/81	MBRB1045HE3_A/I
MBRB1060HE3/45	MBRB1060HE3_A/P
MBRB1060HE3/81	MBRB1060HE3_A/I
MBRB10H60HE3/45	MBRB10H60HE3_A/P
MBRB10H60HE3/81	MBRB10H60HE3_A/I
MBRB1635HE3/45	MBRB1635HE3_A/P
MBRB1635HE3/81	MBRB1635HE3_A/I
MBRB1645HE3/45	MBRB1645HE3_A/P
MBRB1645HE3/81	MBRB1645HE3_A/I
MBRB1660HE3/45	MBRB1660HE3_A/P
MBRB1660HE3/81	MBRB1660HE3_A/I
MBRB16H35HE3/45	MBRB16H35HE3_A/P
MBRB16H35HE3/81	MBRB16H35HE3_A/I
MBRB16H45HE3/45	MBRB16H45HE3_A/P
MBRB16H45HE3/81	MBRB16H45HE3_A/I
MBRB16H60HE3/45	MBRB16H60HE3_A/P
MBRB16H60HE3/81	MBRB16H60HE3_A/I
MBRB2035CTHE3/45	MBRB2035CTHE3_A/P
MBRB2035CTHE3/81	MBRB2035CTHE3_A/I
MBRB2045CTHE3/45	MBRB2045CTHE3_A/P
MBRB2045CTHE3/81	MBRB2045CTHE3_A/I
MBRB2060CTHE3/45	MBRB2060CTHE3_A/P
MBRB2060CTHE3/81	MBRB2060CTHE3_A/I
MBRB20H60CTHE3/45	MBRB20H60CTHE3_A/P
MBRB20H60CTHE3/81	MBRB20H60CTHE3_A/I
MBRB2535CTHE3/45	MBRB2535CTHE3_A/P

Existing P/N	New Revision P/N
MBRB2535CTHE3/81	MBRB2535CTHE3_A/I
MBRB2545CT81HE3/81	MBRB2545CTHE3_A/I
MBRB2545CTHE3/45	MBRB2545CTHE3_A/P
MBRB2545CTHE3/81	MBRB2545CTHE3_A/I
MBRB25H35CTHE3/45	MBRB25H35CTHE3_A/P
MBRB25H35CTHE3/81	MBRB25H35CTHE3_A/I
MBRB25H45CTHE3/45	MBRB25H45CTHE3_A/P
MBRB25H45CTHE3/81	MBRB25H45CTHE3_A/I
MBRB25H60CTHE3/45	MBRB25H60CTHE3_A/P
MBRB25H60CTHE3/81	MBRB25H60CTHE3_A/I
MBRB3035CTHE3/45	MBRB3035CTHE3_A/P
MBRB3035CTHE3/81	MBRB3035CTHE3_A/I
MBRB3045CTHE3/45	MBRB3045CTHE3_A/P
MBRB3045CTHE3/81	MBRB3045CTHE3_A/I
MBRB30H35CTHE3/45	MBRB30H35CTHE3_A/P
MBRB30H35CTHE3/81	MBRB30H35CTHE3_A/I
MBRB30H45CTHE3/45	MBRB30H45CTHE3_A/P
MBRB30H45CTHE3/81	MBRB30H45CTHE3_A/I
MBRB30H50CTHE3/45	MBRB30H50CTHE3_A/P
MBRB30H50CTHE3/81	MBRB30H50CTHE3_A/I
MBRB30H60CTHE3/45	MBRB30H60CTHE3_A/P
MBRB30H60CTHE3/81	MBRB30H60CTHE3_A/I
SBLB1040CTHE3/45	SBLB1040CTHE3_A/P
SBLB1040CTHE3/81	SBLB1040CTHE3_A/I
SBLB10L25HE3/45	SBLB10L25HE3_A/P
SBLB10L25HE3/81	SBLB10L25HE3_A/I
SBLB1640CTHE3/45	SBLB1640CTHE3_A/P
SBLB1640CTHE3/81	SBLB1640CTHE3_A/I
SBLB25L30CTHE3/45	SBLB25L30CTHE3_A/P
SBLB25L30CTHE3/81	SBLB25L30CTHE3_A/I



Product Change Notification



Product Group: Diodes Division /October 20, 2016 / PCN-DD-020-2016 Rev 0

VISHAY BRAND: Vishay General Semiconductor

TIME SCHEDULE: Start shipment date : [January 1, 2017](#)
Last time buy of existing P/N : [April 20, 2017](#)
Last time ship of existing P/N : [October 20, 2017](#)

SAMPLE AVAILABILITY: Available upon request

PRODUCT IDENTIFICATION: Adding underscore (_) + revision code "A" following 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.

RESPONSE DATE: This PCN is considered approved, without further notification, unless we receive specific customer concerns before **December 20, 2016** or as specified by contract.

ISSUED BY: RS Chin, Product Marketing Director – Rectifier (Standard & Schottky)

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