



Product Change Notification



Product Group: Diodes Division / September 17, 2015 / PCN-DD-030-2015 Rev. 0

Process Changes For Automotive Grade Surface Mount TMBS Products

DESCRIPTION OF CHANGE : Vishay Diodes Division would like to announce the process conversion for solderable TMBS (Trench MOS Barrier Schottky) wafers top metal from Ti/Ni/Ag to Ti/Al/Ni/Ag. Besides this top metal change, in addition, the plating method for lead finishing will be converted from barrel to strip plating to improve plating thickness uniformity for SMA and SMPC packages. However due to constraint on barrel plating capacity, we need our customers support to accelerate the conversion schedules in order to maintain our delivery service.

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/Chip/Pellet Process/Structure and Plating scheme.

REASON FOR CHANGE : Process consolidation to improve production shop-floor control and manufacturing equipment utilization, as well as to improve the delivery.

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 : The Involved part numbers are listed below.

➤ Change of Ti/Al/Ni/Ag metal + Strip plating

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
V10P10HM3/86A	V10P10HM3_A/H	V12P12HM3/87A	V12P12HM3_A/I	V8P10HM3/87A	V8P10HM3_A/I
V10P10HM3/87A	V10P10HM3_A/I	V12P45HM3/86A	V12P45HM3_A/H	V8P12HM3/86A	V8P12HM3_A/H
V10P10HM3J/86A	V10P10HM3J_A/H	V12P45HM3/87A	V12P45HM3_A/I	V8P12HM3/87A	V8P12HM3_A/I
V10P12HM3/86A	V10P12HM3_A/H	V12P6HM3/86A	V12P6HM3_A/H	V8P45HM3/86A	V8P45HM3_A/H
V10P12HM3/87A	V10P12HM3_A/I	V12P6HM3/87A	V12P6HM3_A/I	V8P45HM3/87A	V8P45HM3_A/I
V10P45HM3/86A	V10P45HM3_A/H	V12P8HM3/86A	V12P8HM3_A/H	V8P6HM3/86A	V8P6HM3_A/H
V10P45HM3/87A	V10P45HM3_A/I	V12P8HM3/87A	V12P8HM3_A/I	V8P6HM3/87A	V8P6HM3_A/I
V10P6HM3/86A	V10P6HM3_A/H	V15P45HM3/86A	V15P45HM3_A/H	V8P8HM3/86A	V8P8HM3_A/H
V10P6HM3/87A	V10P6HM3_A/I	V15P45HM3/87A	V15P45HM3_A/I	V8P8HM3/87A	V8P8HM3_A/I
V10P8HM3/86A	V10P8HM3_A/H	V15P6HM3/86A	V15P6HM3_A/H	V8PM12HM3/86A	V8PM12HM3_A/H
V10P8HM3/87A	V10P8HM3_A/I	V15P6HM3/87A	V15P6HM3_A/I	V8PM12HM3/87A	V8PM12HM3_A/I
V12P10HM3/86A	V12P10HM3_A/H	V15P8HM3/86A	V15P8HM3_A/H	VSSA210HM3/5AT	VSSA210HM3_A/I
V12P10HM3/87A	V12P10HM3_A/I	V15P8HM3/87A	V15P8HM3_A/I	VSSA210HM3/61T	VSSA210HM3_A/H
V12P12HM3/86A	V12P12HM3_A/H	V8P10HM3/86A	V8P10HM3_A/H		



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➤ Change of Ti/Al/Ni/Ag metal

Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N	Existing P/N	New Rev. P/N
V10D45CHM3/I	V10D45CHM3_A/I	V30DL50CHM3/I	V30DL50CHM3_A/I	V8PAL45HM3/I	V8PAL45HM3_A/I
V10D60CHM3/I	V10D60CHM3_A/I	V3P6HM3/84A	V3P6HM3_A/H	VSSAF3L45HM3/6A	VSSAF3L45HM3_A/H
V20DL45HM3/I	V20DL45HM3_A/I	V3P6HM3/85A	V3P6HM3_A/I	VSSAF3L45HM3/6B	VSSAF3L45HM3_A/I
V30D45CHM3/I	V30D45CHM3_A/I	V3PAL45HM3/I	V3PAL45HM3_A/I	VSSAF56HM3/6A	VSSAF56HM3_A/H
V30D60CHM3/I	V30D60CHM3_A/I	V40DL45HM3/I	V40DL45HM3_A/I	VSSAF56HM3/6B	VSSAF56HM3_A/I
V30D60CLHM3/I	V30D60CLHM3_A/I	V4PAL45HM3/I	V4PAL45HM3_A/I	VSSAF5L45HM3/6A	VSSAF5L45HM3_A/H
V30DL45HM3/I	V30DL45HM3_A/I	V60D45CHM3/I	V60D45CHM3_A/I	VSSAF5L45HM3/6B	VSSAF5L45HM3_A/I

VISHAY BRAND : Vishay General Semiconductor

TIME SCHEDULE : Start conversion date : December 20, 2015

Last time buy of existing P/N : March 17, 2016

Last time ship of existing P/N : September 17, 2016

SAMPLE AVAILABILITY : Available upon request.

PRODUCT IDENTIFICATION : Adding underscore (_) + revision code “**X (X=A, B,...)**” 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 17, 2015* or as specified by contract.

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

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