



Product Change Notification



Product Group: Diodes / April 3rd, 2015 / PCN-DD-013-2015 Rev 0

6 Inch qualification of BZG05Cxx-Series Zener Diodes

DESCRIPTION OF CHANGE:

The Silicon Wafer Diameter used as raw material will change from 4 Inches (100mm) to 6 Inches (150mm) and the manufacturing process will be adapted to 6 Inch lines which includes changes in chip design, diffusion and doping technology. With this PCN Vishay is also transferring to new part numbers in accordance with Vishay Diodes standard Nomenclature.

CLASSIFICATION OF CHANGE: Process Change, Change in Chip Design, Part number Change

REASON FOR CHANGE: Wafer fab technology consolidation

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE:

There will be no impact on quality and reliability. Customers may receive products from both wafer diameters until 4 Inch stocks are depleted. The low noise technology improves breakdown characteristics at low Zener current.

PRODUCT CATEGORY: Diodes

PART NUMBERS/SERIES/FAMILIES AFFECTED:

BZG05Cxx- Series

Partnumbers will change to Vishay Diodes Standard.

Stocks under old partnumber will be shipped until depleted, old partnumbers will be deleted.

VISHAY BRAND(s): Vishay Semiconductors

TIME SCHEDULE:

Start Shipment Date: June 1st, 2015

Last Time Buy Date: N.A.

Last Time Shipment Date: N.A.

SAMPLE AVAILABILITY: available on request

PRODUCT IDENTIFICATION: N.A.

QUALIFICATION DATA: available on request

This PCN is considered approved, without further notification, unless we receive specific customer concerns before June 1st, 2015 or as specified by contract.

ISSUED BY:

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PCN-DD-013-2015 - Part Number List

6 Inch Qualification for BZG05... series and Revision of Part Numbers

Old Material	Material Description	Material Description Techn. Details	Replacement	
			Leadfree	Leadfree AEC-Q101 qualified
BZG05C3V3TR	ZENER DIODE DO214	5%, 3.3V, 1.25W, PZSM=600W	BZG05C3V3-E3-TR	BZG05C3V3-HE3-TR
BZG05C3V3TR3	ZENER DIODE DO214	5%, 3.3V, 1.25W, PZSM=600W	BZG05C3V3-E3-TR3	BZG05C3V3-HE3-TR3
BZG05C3V6TR	ZENER DIODE DO214	5%, 3.6V, 1.25W, PZSM=600W	BZG05C3V6-E3-TR	BZG05C3V6-HE3-TR
BZG05C3V6TR3	ZENER DIODE DO214	5%, 3.6V, 1.25W, PZSM=600W	BZG05C3V6-E3-TR3	BZG05C3V6-HE3-TR3
BZG05C3V9TR	ZENER DIODE DO214	5%, 3.9V, 1.25W, PZSM=600W	BZG05C3V9-E3-TR	BZG05C3V9-HE3-TR
BZG05C3V9TR3	ZENER DIODE DO214	5%, 3.9V, 1.25W, PZSM=600W	BZG05C3V9-E3-TR3	BZG05C3V9-HE3-TR3
BZG05C4V3TR	ZENER DIODE DO214	5%, 4.3V, 1.25W, PZSM=600W	BZG05C4V3-E3-TR	BZG05C4V3-HE3-TR
BZG05C4V3TR3	ZENER DIODE DO214	5%, 4.3V, 1.25W, PZSM=600W	BZG05C4V3-E3-TR3	BZG05C4V3-HE3-TR3
BZG05C4V7TR	ZENER DIODE DO214	5%, 4.7V, 1.25W, PZSM=600W	BZG05C4V7-E3-TR	BZG05C4V7-HE3-TR
BZG05C4V7TR3	ZENER DIODE DO214	5%, 4.7V, 1.25W, PZSM=600W	BZG05C4V7-E3-TR3	BZG05C4V7-HE3-TR3
BZG05C5V1TR	ZENER DIODE DO214	5%, 5.1V, 1.25W, PZSM=600W	BZG05C5V1-E3-TR	BZG05C5V1-HE3-TR
BZG05C5V1TR3	ZENER DIODE DO214	5%, 5.1V, 1.25W, PZSM=600W	BZG05C5V1-E3-TR3	BZG05C5V1-HE3-TR3
BZG05C5V6TR	ZENER DIODE DO214	5%, 5.6V, 1.25W, PZSM=600W	BZG05C5V6-E3-TR	BZG05C5V6-HE3-TR
BZG05C5V6TR3	ZENER DIODE DO214	5%, 5.6V, 1.25W, PZSM=600W	BZG05C5V6-E3-TR3	BZG05C5V6-HE3-TR3
BZG05C6V2TR	ZENER DIODE DO214	5%, 6.2V, 1.25W, PZSM=600W	BZG05C6V2-E3-TR	BZG05C6V2-HE3-TR
BZG05C6V2TR3	ZENER DIODE DO214	5%, 6.2V, 1.25W, PZSM=600W	BZG05C6V2-E3-TR3	BZG05C6V2-HE3-TR3
BZG05C6V8TR	ZENER DIODE DO214	5%, 6.8V, 1.25W, PZSM=600W	BZG05C6V8-E3-TR	BZG05C6V8-HE3-TR
BZG05C6V8TR3	ZENER DIODE DO214	5%, 6.8V, 1.25W, PZSM=600W	BZG05C6V8-E3-TR3	BZG05C6V8-HE3-TR3
BZG05C7V5TR	ZENER DIODE DO214	5%, 7.5V, 1.25W, PZSM=600W	BZG05C7V5-E3-TR	BZG05C7V5-HE3-TR
BZG05C7V5TR3	ZENER DIODE DO214	5%, 7.5V, 1.25W, PZSM=600W	BZG05C7V5-E3-TR3	BZG05C7V5-HE3-TR3
BZG05C8V2TR	ZENER DIODE DO214	5%, 8.2V, 1.25W, PZSM=600W	BZG05C8V2-E3-TR	BZG05C8V2-HE3-TR
BZG05C8V2TR3	ZENER DIODE DO214	5%, 8.2V, 1.25W, PZSM=600W	BZG05C8V2-E3-TR3	BZG05C8V2-HE3-TR3
BZG05C9V1TR	ZENER DIODE DO214	5%, 9.1V, 1.25W, PZSM=600W	BZG05C9V1-E3-TR	BZG05C9V1-HE3-TR
BZG05C9V1TR3	ZENER DIODE DO214	5%, 9.1V, 1.25W, PZSM=600W	BZG05C9V1-E3-TR3	BZG05C9V1-HE3-TR3
BZG05C10TR	ZENER DIODE DO214	5%, 10V, 1.25W, PZSM=600W	BZG05C10-E3-TR	BZG05C10-HE3-TR
BZG05C10TR3	ZENER DIODE DO214	5%, 10V, 1.25W, PZSM=600W	BZG05C10-E3-TR3	BZG05C10-HE3-TR3
BZG05C11TR	ZENER DIODE DO214	5%, 11V, 1.25W, PZSM=600W	BZG05C11-E3-TR	BZG05C11-HE3-TR
BZG05C11TR3	ZENER DIODE DO214	5%, 11V, 1.25W, PZSM=600W	BZG05C11-E3-TR3	BZG05C11-HE3-TR3
BZG05C12TR	ZENER DIODE DO214	5%, 12V, 1.25W, PZSM=600W	BZG05C12-E3-TR	BZG05C12-HE3-TR
BZG05C12TR3	ZENER DIODE DO214	5%, 12V, 1.25W, PZSM=600W	BZG05C12-E3-TR3	BZG05C12-HE3-TR3
BZG05C13TR	ZENER DIODE DO214	5%, 13V, 1.25W, PZSM=600W	BZG05C13-E3-TR	BZG05C13-HE3-TR
BZG05C13TR3	ZENER DIODE DO214	5%, 13V, 1.25W, PZSM=600W	BZG05C13-E3-TR3	BZG05C13-HE3-TR3
BZG05C15TR	ZENER DIODE DO214	5%, 15V, 1.25W, PZSM=600W	BZG05C15-E3-TR	BZG05C15-HE3-TR
BZG05C15TR3	ZENER DIODE DO214	5%, 15V, 1.25W, PZSM=600W	BZG05C15-E3-TR3	BZG05C15-HE3-TR3
BZG05C16TR	ZENER DIODE DO214	5%, 16V, 1.25W, PZSM=600W	BZG05C16-E3-TR	BZG05C16-HE3-TR
BZG05C16TR3	ZENER DIODE DO214	5%, 16V, 1.25W, PZSM=600W	BZG05C16-E3-TR3	BZG05C16-HE3-TR3
BZG05C18TR	ZENER DIODE DO214	5%, 18V, 1.25W, PZSM=600W	BZG05C18-E3-TR	BZG05C18-HE3-TR

Old Material	Material Description	Material Description Techn. Details	Replacement	
			Leadfree	Leadfree AEC-Q101 qualified
BZG05C18TR3	ZENER DIODE DO214	5%, 18V, 1.25W, PZSM=600W	BZG05C18-E3-TR3	BZG05C18-HE3-TR3
BZG05C20TR	ZENER DIODE DO214	5%, 20V, 1.25W, PZSM=600W	BZG05C20-E3-TR	BZG05C20-HE3-TR
BZG05C20TR3	ZENER DIODE DO214	5%, 20V, 1.25W, PZSM=600W	BZG05C20-E3-TR3	BZG05C20-HE3-TR3
BZG05C22TR	ZENER DIODE DO214	5%, 22V, 1.25W, PZSM=600W	BZG05C22-E3-TR	BZG05C22-HE3-TR
BZG05C22TR3	ZENER DIODE DO214	5%, 22V, 1.25W, PZSM=600W	BZG05C22-E3-TR3	BZG05C22-HE3-TR3
BZG05C24TR	ZENER DIODE DO214	5%, 24V, 1.25W, PZSM=600W	BZG05C24-E3-TR	BZG05C24-HE3-TR
BZG05C24TR3	ZENER DIODE DO214	5%, 24V, 1.25W, PZSM=600W	BZG05C24-E3-TR3	BZG05C24-HE3-TR3
BZG05C27TR	ZENER DIODE DO214	5%, 27V, 1.25W, PZSM=600W	BZG05C27-E3-TR	BZG05C27-HE3-TR
BZG05C27TR3	ZENER DIODE DO214	5%, 27V, 1.25W, PZSM=600W	BZG05C27-E3-TR3	BZG05C27-HE3-TR3
BZG05C30TR	ZENER DIODE DO214	5%, 30V, 1.25W, PZSM=600W	BZG05C30-E3-TR	BZG05C30-HE3-TR
BZG05C30TR3	ZENER DIODE DO214	5%, 30V, 1.25W, PZSM=600W	BZG05C30-E3-TR3	BZG05C30-HE3-TR3
BZG05C33TR	ZENER DIODE DO214	5%, 33V, 1.25W, PZSM=600W	BZG05C33-E3-TR	BZG05C33-HE3-TR
BZG05C33TR3	ZENER DIODE DO214	5%, 33V, 1.25W, PZSM=600W	BZG05C33-E3-TR3	BZG05C33-HE3-TR3
BZG05C36TR	ZENER DIODE DO214	5%, 36V, 1.25W, PZSM=600W	BZG05C36-E3-TR	BZG05C36-HE3-TR
BZG05C36TR3	ZENER DIODE DO214	5%, 36V, 1.25W, PZSM=600W	BZG05C36-E3-TR3	BZG05C36-HE3-TR3
BZG05C39TR	ZENER DIODE DO214	5%, 39V, 1.25W, PZSM=600W	BZG05C39-E3-TR	BZG05C39-HE3-TR
BZG05C39TR3	ZENER DIODE DO214	5%, 39V, 1.25W, PZSM=600W	BZG05C39-E3-TR3	BZG05C39-HE3-TR3
BZG05C43TR	ZENER DIODE DO214	5%, 43V, 1.25W, PZSM=600W	BZG05C43-E3-TR	BZG05C43-HE3-TR
BZG05C43TR3	ZENER DIODE DO214	5%, 43V, 1.25W, PZSM=600W	BZG05C43-E3-TR3	BZG05C43-HE3-TR3
BZG05C47TR	ZENER DIODE DO214	5%, 47V, 1.25W, PZSM=600W	BZG05C47-E3-TR	BZG05C47-HE3-TR
BZG05C47TR3	ZENER DIODE DO214	5%, 47V, 1.25W, PZSM=600W	BZG05C47-E3-TR3	BZG05C47-HE3-TR3
BZG05C51TR	ZENER DIODE DO214	5%, 51V, 1.25W, PZSM=600W	BZG05C51-E3-TR	BZG05C51-HE3-TR
BZG05C51TR3	ZENER DIODE DO214	5%, 51V, 1.25W, PZSM=600W	BZG05C51-E3-TR3	BZG05C51-HE3-TR3
BZG05C56TR	ZENER DIODE DO214	5%, 56V, 1.25W, PZSM=600W	BZG05C56-E3-TR	BZG05C56-HE3-TR
BZG05C56TR3	ZENER DIODE DO214	5%, 56V, 1.25W, PZSM=600W	BZG05C56-E3-TR3	BZG05C56-HE3-TR3
BZG05C62TR	ZENER DIODE DO214	5%, 62V, 1.25W, PZSM=600W	BZG05C62-E3-TR	BZG05C62-HE3-TR
BZG05C62TR3	ZENER DIODE DO214	5%, 62V, 1.25W, PZSM=600W	BZG05C62-E3-TR3	BZG05C62-HE3-TR3
BZG05C68TR	ZENER DIODE DO214	5%, 68V, 1.25W, PZSM=600W	BZG05C68-E3-TR	BZG05C68-HE3-TR
BZG05C68TR3	ZENER DIODE DO214	5%, 68V, 1.25W, PZSM=600W	BZG05C68-E3-TR3	BZG05C68-HE3-TR3
BZG05C75TR	ZENER DIODE DO214	5%, 75V, 1.25W, PZSM=600W	BZG05C75-E3-TR	BZG05C75-HE3-TR
BZG05C75TR3	ZENER DIODE DO214	5%, 75V, 1.25W, PZSM=600W	BZG05C75-E3-TR3	BZG05C75-HE3-TR3
BZG05C82TR	ZENER DIODE DO214	5%, 82V, 1.25W, PZSM=600W	BZG05C82-E3-TR	BZG05C82-HE3-TR
BZG05C82TR3	ZENER DIODE DO214	5%, 82V, 1.25W, PZSM=600W	BZG05C82-E3-TR3	BZG05C82-HE3-TR3
BZG05C91TR	ZENER DIODE DO214	5%, 91V, 1.25W, PZSM=600W	BZG05C91-E3-TR	BZG05C91-HE3-TR
BZG05C91TR3	ZENER DIODE DO214	5%, 91V, 1.25W, PZSM=600W	BZG05C91-E3-TR3	BZG05C91-HE3-TR3
BZG05C100TR	ZENER DIODE DO214	5%, 100V, 1.25W, PZSM=600W	BZG05C100-E3-TR	BZG05C100-HE3-TR
BZG05C100TR3	ZENER DIODE DO214	5%, 100V, 1.25W, PZSM=600W	BZG05C100-E3-TR3	BZG05C100-HE3-TR3