

Manufacturing Location Change for TO-220 Clip Bond Package

DESCRIPTION OF CHANGE:

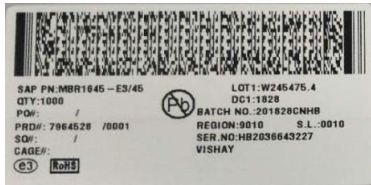



Vishay Diodes Division is transferring the assembly & final test of all clip bond assembly products in TO-220 package from Vishay Tianjin factory to Vishay Xi'an factory.

In addition to the location change, all Schottky Rectifier products will have the following changes.

1. Solder paste composition changed from 88%Pb/2%Ag/10%Sn to 92.5%Pb/2.5%Ag/5%Sn.
2. MBR15XXCT-E3 and MBR7XX-E3 series, clip size for device inner soldering optimized from 42*42mil to 34*34mil.

All other assembly raw material, process flows and controls used in Vishay Xi'an factory are the same as those used in current Vishay Tianjin factory production. There is no change in POD spec., form, fit and function of the device in customer applications.

All involved changes are summarized in below table:

Item	Before	After
Assembly Site	Vishay Tianjin	Vishay Xi'an
Solder paste composition (For Schottky Rectifier products)	88%Pb/2%Ag/10%Sn	92.5%Pb/2.5%Ag/5%Sn
Clip Size (For MBR15XXCT-E3 & MBR7XX-E3)	42*42mil	34*34mil
2D Label	<p>Size: 3*1.5 inch</p> 	<p>Size: 4*3 inch</p> 
Inner Box	<p>Size: 21.3*6.4*1.8 inch</p> 	<p>Size: 22.7*5.7*1.7 inch</p> 

CLASSIFICATION OF CHANGE:

Assembly Site

Direct Materials – for Schottky Rectifier products solder paste change

Assembly Process/Structure – for Schottky Rectifier products clip size change

REASON FOR CHANGE: Production line consolidation and Material consolidation/optimization



Product Change Notification



Product Group: Diodes Division / July 30, 2018 / PCN-DD-015-2018 Rev. 0

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE:

No change in quality, reliability and performance

PRODUCT CATEGORY: Rectifier

PART NUMBERS/SERIES/FAMILIES AFFECTED:

Involved product groups are listed below and separated in 3 groups per involved changes:

1. Only assembly & final test site change:

Part number	Part number	Part number	Part number
BYQ28E-100-E3/45	FEP16DT-E3/45	FES8HT-E3/45	UG10CCT-E3/45
BYQ28E-150-E3/45	FEP16FT-E3/45	FES8JT-E3/45	UG10DCT-E3/45
BYQ28E-200-E3/45	FEP16GT-E3/45	GI1401-E3/45	UG10FCT-E3/45
BYT28-300-E3/45	FEP16HT-E3/45	GI1402-E3/45	UG10GCT-E3/45
BYT28-400-E3/45	FEP16JT-E3/45	GI1403-E3/45	UG18ACT-E3/45
BYV29-300-E3/45	FES16AT-E3/45	GI1404-E3/45	UG18BCT-E3/45
BYV29-400-E3C/P	FES16BT-E3/45	GI2401-E3/45	UG18CCT-E3/45
BYV29-400-E3/45	FES16CT-E3/45	GI2402-E3/45	UG18DCT-E3/45
BYV32-100-E3/45	FES16DT-E3/45	GI2403-E3/45	UG8AT-E3/45
BYV32-150-E3/45	FES16FT-E3/45	GI2404-E3/45	UG8BT-E3/45
BYV32-200-E3/45	FES16GT-E3/45	NS8AT-E3/45	UG8CT-E3/45
BYV32-50-E3/45	FES16HT-E3/45	NS8BT-E3/45	UG8DT-E3/45
BYW29-100-E3/45	FES16JT-E3/45	NS8DT-E3/45	UG8FT-E3/45
BYW29-150-E3/45	FES8AT-E3/45	NS8GT-E3/45	UG8GT-E3/45
BYW29-200-E3/45	FES8BT-E3/45	NS8JT-E3/45	UG8HT-E3/45
BYW29-50-E3/45	FES8CT-E3/45	NS8KT-7002E3/45	UG8JT-E3/45
FEP16AT-E3/45	FES8DT-E3/45	NS8KT-E3/45	
FEP16BT-E3/45	FES8FT-E3/45	NS8MT-E3/45	
FEP16CT-E3/45	FES8GT-E3/45	UG10BCT-E3/45	

2. Assembly & final test site change + Solder paste change:

Part number	Part number	Part number	Part number
MBR1045-E3/45	MBR1645-E3/45	MBR30H60CT-E3/45	SBL10L25-E3/45
MBR1060-E3/45	MBR1660-E3/45	MBR2535CT-E3/45	SBL25L30CT-E3/45
MBR10H100-E3/45	MBR20H100CT-E3/45	MBR2545CT-E3/45	
MBR10H100CT-E3/45	MBR20H100CTG-E3/45	MBR2560CT-E3/45	
MBR1635-E3/45	MBR30H100CT-E3/45	SBL1040CT-E3/45	

3. Assembly & final test site change + Solder paste change + Clip size change

Part number	Part number	Part number	Part number
MBR1545CT-E3/45	MBR1560CT-E3/45	MBR745-E3/45	MBR760-E3/45

VISHAY BRAND: Vishay General Semiconductor

TIME SCHEDULE: Start Shipment Date from Vishay Xi'an: January 15, 2019

Last Time Buy of Existing P/N from Vishay Tianjin: March 15, 2019

Last Time Shipment of Existing P/N from Vishay Tianjin: May 19, 2019

SAMPLE ABAILABILITY: Available upon request.



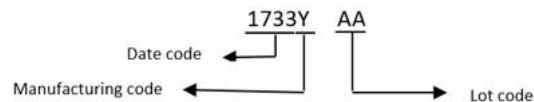
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PRODUCT IDENTIFICATION:

The manufacturing code "Y" will be added to the last digit of date code, lot code would be added next to date code for identification of the new manufacturing site.



QUALIFICATION DATA: Available upon request.

RESPONSE DATE: This PCN is considered approved, without further notification, unless we receive specific customer concerns before **October 1st, 2018** or as specified by contract.

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

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