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Product Change Notification

Product Group: OPT/Tue Jun 4, 2024/PCN-OPT-1327-2024-REV-1



VBP / VBPW Series-Pre-plated LF change/ Silver paste 2nd source

For further information, please contact your regional Vishay office.

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Description of Change: * change to pre-plated LF

* add 2nd source for silver paste

Reason for Change: 1. New LF structure enforce its mechanical strength in the
encapsulant, to prevent stress displacement.

2. use pre-plated lead frame and cancel the plating process,
better process control

3. add second source for silver paste as per BCP

Expected Influence on Quality/Reliability/Performance: No influence on quality, reliability and performance expected

Part Numbers/Series/Families Affected: Please see materials list on the succeeding page.

Vishay Brand(S): Vishay Semiconductors

Time Schedule:

Start Shipment Date: Wed Sep 4, 2024

Sample Availability: available upon request

Product Identification: datecode and special label

Qualification Data: available upon request

This PCN is considered approved, without further notification, unless we receive specific customer concerns before Thu Jul 4, 2024 or as specified by contract.

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VBP104FAS	VBP104FASR	VBP104S	VBP104SR	VBPW34FAS
VBPW34FASR	VBPW34S	VBPW34SR	VBPW34VR	

VBP / VBPW series PCN report

VSH VBP / VBPW series PCN Summary

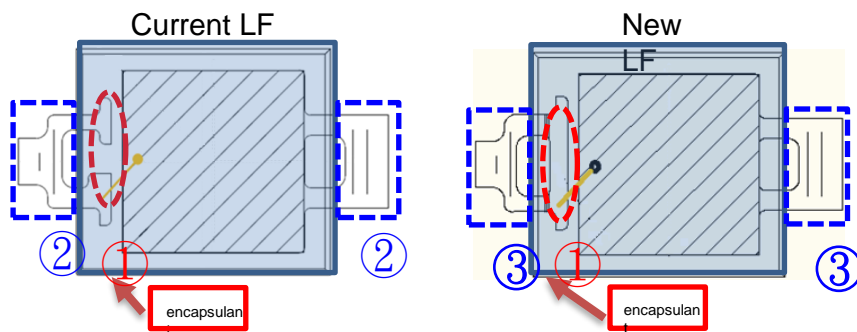
Product	Pre-plated LF (Ag)	Silver paste-2 nd
VBP104FAS VBP104FASR VBP104S VBP104SR	RA Pass	
VBPW34FAS / VBPW34FASBDD VBPW34FASR VBPW34S / VBPW34VR VBPW34SR		

LF and Silver paste will be changed.

PCN proposal	Pre plated LF (Ag)	Silver paste 2nd
Purpose	1. New LF structure enforce its mechanical strength in the encapsulant, to prevent stress displacement. 2.use pre-plated lead frame and cancel the plating process, better process control	Add 2nd silver paste
context	use pre-plating Lead frame and cancel the plating process	Add 2nd silver paste and will change to 2nd supplier
VBP104S	V	V
VBP104SR	V	V
VBP104FAS	V	V
VBP104FASR	V	V
VBPW34S / VBPW34VR	V	V
VBPW34SR	V	V
VBPW34FAS / VBPW34FASBDD	V	V
VBPW34FASR	V	V

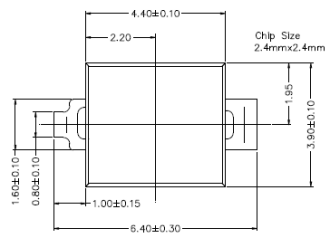
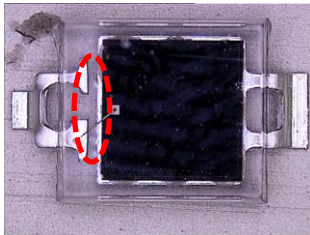
- ◆ 1. Changing the LF structure from separated to linked type (shown as ①) ;
- ◆ 2. Sn plated area ② in process → Ag fully pre-plated area ③.

No need for additional plating in process.

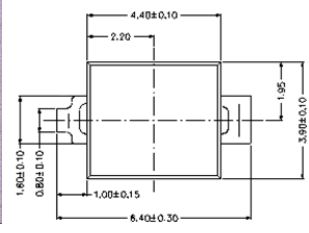
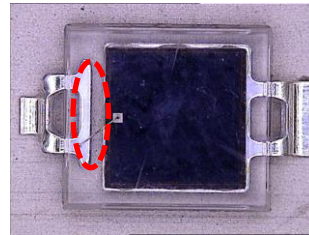


Current LF

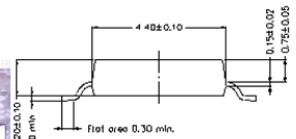
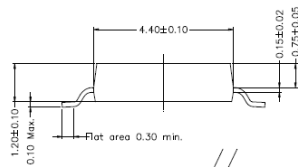
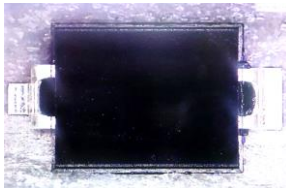
Transparent compound



New LF

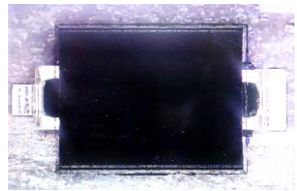



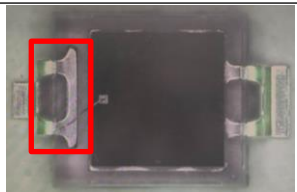
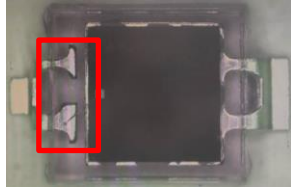


Black compound



Remark:

1. No change in leadframe dimension.
2. only the shape difference at the marked area visible in transparent compound parts.

NO.	New materials	Original material
Top view		
Side view		
CCD picture Internal structure		

Remark :
No difference
from appearance
of VBPW34FAS.

Under CCD
vision, the shape
difference at the
marked area will
be observed.

Appearance	PASS
Measurement	PASS
Electrical Characteristics	PASS
Electrical curve-	PASS
Reliability test	PASS
SPC / Process	PASS
ROHS Data	PASS