

Final Product/Process Change Notification Document #: FPCN25153Z Issue Date: 10 Jan 2023

Title of Change:	Replace 0.8mil Bare Copper Wire with 0.8mil Pd-Coated Copper Wire for MOSFET Product in onsemi Leshan, China.		
Proposed Changed Material First Ship Date:	17 Jul 2023 or earlier if approved by customer		
Current Material Last Order Date:	N/A Orders received after the Current Material Last Order Date expiration are to be considered a orders for new changed material as described in this PCN. Orders for current (unchanged material after this date will be per mutual agreement and current material inventor availability.		
Current Material Last Delivery Date:	N/A The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory		
Product Category:	Active components – Discrete components		
Contact information:	Contact your local onsemi Sales Office or <u>York.Yu@onsemi.com</u>		
PCN Samples Contact:	Contact your local onsemi Sales Office to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.		
Sample Availability Date:	30 Jan 2023		
PPAP Availability Date:	01 Feb 2023		
Additional Reliability Data:	Contact your local onsemi Sales Office or <u>c.l.yang@lps.com.cn</u>		
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD- 46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact <u>PCN.Support@onsemi.com.</u>		
Change Category			
Category	Type of Change		
Process - Assembly	Change of wire bonding		
site, China.	copper wire with Pd-Coated Copper Wire, for these li		
Purpose: Pd-coated Copper wire has better oxid	dation resistant and corrosion resistant, which could I From From	have better wire bonding performance. To	

Reason / Motivation for Change:	Quality improvement	
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:	The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded. No anticipated impacts.	



es Affected	:					
onsemi Sites onsemi Leshan, China		External Foundry/Subcon Sites				
		None				
Marking of Parts/ Traceability of Change:		Traceability will be maintained by date code.				
Reliability Data Summary: <u>QV DEVICE NAME:</u> BVSS123LT1G <u>RMS</u> #: L68844 <u>PACKAGE:</u> SOT23						
Test HTRB	Specification JESD22-A108	Condition Ta=150°C, 100% max rated V	1008 hrs	Results		
HTGB	JESD22-A108	Ta=150°C, 100% max rated Vgss	1008 hrs	0/231		
HTSL	JESD22-A103	Ta=150°C	2016 hrs	0/231		
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	30К сус	0/231		
тс	JESD22-A104	Ta= -65°C to +150°C	1000 сус	0/231		
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231		
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231		
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	-			
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/30		
				1		

NOTE: AEC-1pager is attached.

To view attachments:

1. Download pdf copy of the PCN to your computer

2. Open the downloaded pdf copy of the PCN

3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field

4. Then click on the attached file.

Electrical Characteristics Summary:

Electrical characteristics are not impacted, detail data summary can be provided upon customer requirement.



List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

Current Part Number	New Part Number	Qualification Vehicle			
SBVS138LT1G	NA	BVSS123LT1G			
NVR4003NT3G-M02	NA	BVSS123LT1G			
NVR4003NT3G	NA	BVSS123LT1G			
BVSS84LT1G	NA	BVSS123LT1G			
2V7002KT3G	NA	BVSS123LT1G			