



Final Product/Process Change Notification

Document #:FPCN24789Z

Issue Date:29 Sep 2022

Title of Change:	Au wire to Cu wire conversion for SC-70 Zener product
Proposed Changed Material First Ship Date:	07 Apr 2023 or earlier if approved by customer
Current Material Last Order Date:	31 Jan 2023 <i>Orders received after the Current Material Last Order Date expiration are to be considered as 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 inventory availability.</i>
Current Material Last Delivery Date:	06 Apr 2023 <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>
Product Category:	Active components – Discrete components
Contact information:	Contact your local onsemi Sales Office or Jim.Peng@onsemi.com
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:	20 Nov 2022
PPAP Availability Date:	31 Oct 2022
Additional Reliability Data:	Contact your local onsemi Sales Office or c.l.yang@lps.com.cn
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 PCN.Support@onsemi.com .

Change Category

Category	Type of Change
Process - Assembly	Change of wire bonding

Description and Purpose:

onsemi is notifying customer of its conversion from Au wire to bare Cu wire for SC-70 Zener product. Upon the expiration of this PCN, devices will be built with bare Cu wire at the same site. Datasheet specifications and product electrical performance remain unchanged. Reliability qualification and full electrical characterization over temperature were performed for qualification vehicle device. The Cu wire is with higher thermal conductivity and lower resistivity that benefits for customer application. This is to unify the wire material in assembly process to improve productivity also.

There is no change in fit, form or functions of the affected parts.

	From	To
Bond Wire	0.8 mils Au wire	0.8 mils bare Cu wire



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Reason / Motivation for Change:	Process/Materials Change			
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.			
Sites Affected:				
onsemi Sites		External Foundry/Subcon Sites		
onsemi Leshan, China		None		
Marking of Parts/ Traceability of Change:	Date Code			
Reliability Data Summary:				
QV DEVICE NAME : SZNUP3125WTT1G RMS: 85339 PACKAGE: SC-70				
Test	Specification	Condition	Interval	Result
PC	J STD 020 , JESD22-A113	MSL 1 @ 260 °C	Before TC, UHAST, HAST	0/693
UHAST	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96 hrs	0/231
TC	JESD22-A104	Ta= - 65°C to +150°C	1000 cyc	0/231
HAST	JESD22-A110	110C/85%RH, ~3 psig, 80% rated V, or 100V max	528 hrs	0/231
HTRB	JESD22-A108	Tj = Max rate Tj for device, bias = 100% of rated V for Q 101 Rev D	2016 hrs	0/231
HTSL	JESD22- A103	Temp =150°C, no bias	2016 hrs	0/231
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/30
<i>To view attachments:</i> 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.				
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 <u>PCN Customized Portal</u> .				
Current Part Number	New Part Number	Qualification Vehicle		
SZNUP3125WTT3G	NA	SZNUP3125WTT1G		
SZNUP2125WTT3G	NA	SZNUP3125WTT1G		
SZNUP2242WTT1G	NA	SZNUP3125WTT1G		
SZNUP3125WTT1G	NA	SZNUP3125WTT1G		
SZNUP2125WTT1G	NA	SZNUP3125WTT1G		