

Initial Product/Process Change Notification Document # : IPCN22168Z

Issue Date: 22 March 2018

Title of Change:	Gold wire to bare copper wire conversion for Zener and ESD Protection devices assembled in ON Semiconductor Leshan facility.			
Proposed Changed Material First Ship Date:	30 April 2019			
Current Material Last Order Date:	30 April 2019 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 wil be per mutual agreement and current material inventory availability.			
Current Material Last Delivery Date:	30 April 2019 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 ON Semiconductor Sales Office or < <u>lim.Peng@onsemi.com</u> >.			
Samples:	Contact your local ON Semiconductor Sales Office to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification.			
Sample Availability Date:	Samples should be available after completion of qualification.			
PPAP Availability Date:	Samples should be available after completion of qualification.			
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or < <u>Rui.Zhang@onsemi.com</u> >.			
Type of Notification:	This is an Initial Product/Process Change Notification (IPCN) sent to customers. IPCNs are issued at least 30 days prior to the issuance of the Final Change Notice (FPCN). An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 12 months prior to implementation of the change. In case of questions, contact <pcn.support@onsemi.com>.</pcn.support@onsemi.com>			
Change Category:	Type of Change			
Process – Assembly	Change of wire bonding			
Description and Purpose:				
Material Change	Before Change Description	After Change Description		
Wire	0.8 mils gold wire	0.8 mils bare copper wire		



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Reason / Motiva Change:	ation for	Change benefits for customer: Risk for late release for custome capacity planning.		-	onductivity and lower resistivity. bility in terms of manufacturing and	
Anticipated impact on fit, form, function, reliability, product safety or		The device is being qualified and based on the same Product Specification. Potential impacts can be identified, but due to testing performed by ON Semiconductor in relation to the PCN, associated risks will be verified and excluded.				
manufacturability:		No anticipated impacts.				
Sites Affected:		ON Semiconductor Sites: External Foundry/Subcon ON Leshan, China None		Sites:		
	Marking of Parts/ Traceability of Change:Products assembled with 0.8 mils bare copper wire from ON Semiconductor Leshan facility will have a Finis Goods Date Code of May, 2019 or later.					
Reliability Data	Summary:					
	Test	Specification		Condition	Interval	
	PC	JESD22-A113	N	SL 1@ 260°C	Before TC, UHAST, HAST, IOL	
	UHAST	JESD22 A118	Ta=130C,	85% RH, no bias, 96 hrs	96 hrs	
	TC	JESD22-A104	Ta=	- 65°C to +150°C	2000 сус	
	HAST	JESD22 A110	-	RH, 80% rated V or 42V ax, 192 hours.	192 hrs	
	IOL	MIL-STD-750 (M1037)	Ta=+25°C, delta Tj=100°C, On/off = 2 min		30000 сус	
	HTRB	MIL-STD750-1	Tj= max, V=	100% rated V, 1008 Hrs	1008 hrs	
	HTSL	JEDS22- A103	Temp.=15	0°C,no bias,2016hours	2016 hrs	
	RSH	JESD22-B106	Та	= 265C, 10 sec	-	
Estimated date for qualification completion: 20 April 2018						
Electrical Characteristic Summary: Electrical characteristics will be performed and updated per FPCN.						
List of Affected Standard Parts:						
Current Part Number				Qualification Vehicle		
	SESD9L3.3ST5G					
SZESD7951ST5G				SESD9L3.3ST5G		
SZESD9C3.3ST5G						
	SZESD9C5.0ST5G					
522555 63.6515 6						

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Current Part Number	Qualification Vehicle	
SZESDR0502BT1G	SZESDR0502BT1G	
SZMM5Z2V4T1G	SZMM5Z47VT1G	
SZMM5Z3V6T1G		
SZMM5Z4V3T1G		
SZMM5Z5V1ST1G		
SZMM5Z6V2T1G		
SZMM5Z9V1ST1G		
SZMM5Z9V1T1G		
SZESD5Z7.0T1G		
SZNZ9F2V4T5G		
SZNZ9F2V7ST5G		
SZNZ9F3V0T5G	SZNZ9F20VT5G	
SZNZ9F3V9T5G		
SZNZ9F4V3ST5G		
SZNZ9F4V7ST5G		
SZNZ9F5V1T5G		
SZNZ9F5V6ST5G		
SZNZ9F6V2ST5G		
SZNZ9F6V2T5G		



Product	Customer Part Number	New Part Number	Qualification Vehicle
SESD9L3.3ST5G		NA	SESD9L3.3ST5G
SZESD7951ST5G		NA	SESD9L3.3ST5G
SZESD9C3.3ST5G		NA	SESD9L3.3ST5G
SZESDR0502BT1G		NA	SZESDR0502BT1G
SZMM5Z2V4T1G		NA	SZMM5Z47VT1G
SZMM5Z3V6T1G	1	NA	SZMM5Z47VT1G
SZMM5Z4V3T1G		NA	SZMM5Z47VT1G
SZMM5Z5V1ST1G		NA	SZMM5Z47VT1G
SZMM5Z6V2T1G	1	NA	SZMM5Z47VT1G
SZMM5Z9V1ST1G		NA	SZMM5Z47VT1G
SZMM5Z9V1T1G		NA	SZMM5Z47VT1G
SZNZ9F2V4T5G	1	NA	SZNZ9F20VT5G
SZNZ9F2V7ST5G		NA	SZNZ9F20VT5G
SZNZ9F3V0T5G		NA	SZNZ9F20VT5G
SZNZ9F3V9T5G		NA	SZNZ9F20VT5G
SZNZ9F4V3ST5G	1	NA	SZNZ9F20VT5G
SZNZ9F4V7ST5G		NA	SZNZ9F20VT5G
SZNZ9F5V1T5G		NA	SZNZ9F20VT5G
SZNZ9F5V6ST5G		NA	SZNZ9F20VT5G
SZNZ9F6V2ST5G		NA	SZNZ9F20VT5G
SZNZ9F6V2T5G		NA	SZNZ9F20VT5G