



Title of Change:	Copper Wire replacement of Gold Wire for SOD-323 Packaged Zener Products assembled in Leshan, China									
Proposed first ship date:	10 July 2017									
Contact information:	Contact your local ON Semiconductor Sales Office or <Jim.Peng@onsemi.com>									
Samples:	Contact your local ON Semiconductor Sales Office									
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <Rui.Zhang@lps.com.cn>									
Type of notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 12months prior to implementation of the change or earlier upon customer approval. ON Semiconductor will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <PCN.Support@onsemi.com>.									
Change Part Identification:	Products (listed on this FPCN) assembled with the Copper Wire from the ON Semiconductor facility in Leshan, China, will have a Finish Good Date Code representing Work Week 21, 2017 or newer.									
Change category:	<input type="checkbox"/> Wafer Fab Change <input checked="" type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input type="checkbox"/> Other _____									
Change Sub-Category(s):	<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Manufacturing Site Change/Addition <input type="checkbox"/> Manufacturing Process Change </div> <div> <input checked="" type="checkbox"/> Material Change <input type="checkbox"/> Product specific change </div> <div> <input type="checkbox"/> Datasheet/Product Doc change <input type="checkbox"/> Shipping/Packaging/Marking <input type="checkbox"/> Other: _____ </div> </div>									
Sites Affected:	<input type="checkbox"/> All site(s) <input type="checkbox"/> not applicable <input checked="" type="checkbox"/> ON Semiconductor site(s) : ON Leshan, China <input type="checkbox"/> External Foundry/Subcon site(s)									
Description and Purpose: ON Semiconductor is notifying customers of its use of 2mils Copper Wire (in place of Gold Wire) for their SOD-323 Packaged Products assembled with Zener Die. Reliability Qualification and full electrical characterization over temperature has been performed.										
	<table border="1"> <thead> <tr> <th></th><th>Before Change</th><th>After Change</th></tr> <tr> <th></th><th>Description</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Wire</td><td>2 mils gold wire</td><td>2 mils copper wire</td></tr> </tbody> </table>		Before Change	After Change		Description	Description	Wire	2 mils gold wire	2 mils copper wire
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**Reliability Data Summary:**

Qual Vehicle SD05T1G

PACKAGE: SOD-323

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103 AEC-Q101	Ta= 150C	2016 hrs	0/240
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	Before TC, AC, H3TRB, IOL	0/960
AC	JESD22-A102 AEC-Q101	121°C, 100% RH, ~15psig, unbiased	192 hrs	0/240
TC	JESD22-A104 AEC-Q101	Ta= - 65°C to +150°C	2000 cyc	0/240
H3TRB	JESD22-A101 AEC-Q101	Temp = +85°C; RH = 85%, 80% V bias	2016 hrs	0/240
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	30000 cyc	0/240
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

*NOTE: AEC 1 pager attached**To access file attachments on pdf copy of PCN, please be guided by the steps below:*

- 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/s*

Electrical Characteristic Summary:

There is no change in electrical characteristics. Product performance meets data sheet specifications, Data is available upon request.

List of Affected Standard Parts:

Part Number	Qualification Vehicle
SZSD05T3G	SZSD05T1G