



Title of Change:	Bare copper Wire replacing Gold Wire for SOT-23 Packages of MOSFET Products in Leshan, China.
Proposed first ship date:	26 April 2017
Contact information:	Contact your local ON Semiconductor Sales Office or < York.Yu@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:	<p>This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 1 year prior to implementation of the change.</p> <p>ON Semiconductor will consider this proposed change and its 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>.</p>
Change Part Identification:	Products (listed on this FPCN) assembled with the Bare Copper Wire from the ON Semiconductor facility in Leshan, China, will have a Finish Good Date Code representing Work Week 17, 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):	<input type="checkbox"/> Manufacturing Site Change/Addition <input checked="" type="checkbox"/> Material Change <input type="checkbox"/> Datasheet/Product Doc change <input type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Product specific change <input type="checkbox"/> Shipping/Packaging/Marking <input type="checkbox"/> Other: _____
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:	<p>ON Semiconductor is notifying customers of its use of 2mils bare Copper Wire (in place of 2mils Gold Wire) for their SOT-23 Packaged Products assembled with MOSFET Die. SOT23 Products built with Planar MOSFET platforms are represented by this Process Change Notice.</p> <p>Reliability Qualification and full electrical characterization over temperature has been performed.</p>



Reliability Data Summary:

Qual Vehicle MVGSF1N03LT1G
PACKAGE: SOT23

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150C	2016 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	Before TC, AC, HAST, IOL	
AC	JESD22-A102	121°C, 100% RH, ~15psig, unbiased	192 hrs	0/231
TC	JESD22-A104	Ta= - 65°C to +150°C	2000 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	30000 cyc	0/231
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30

Note: AEC1 pager is 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:

Electrical characteristics are not impacted.

List of Affected Standard Parts:

Part Number	Qualification Vehicle
MVGSF1N02LT1G	MVGSF1N03LT1G
MVGSF1N03LT1G	
MVSF2N02ELT1G	