

Final Product/Process Change Notification Document #: FPCN21170X

Issue Date: 8 December 2015

Title of Change:	Copper Wire replacing Gold Wire for SOT-23 Packages of MOSFET Products in Leshan, China			
Proposed first ship date:	15 March 2016			
Contact information:	Contact your local ON Semiconductor Sales Office or < <u>York.Yu@onsemi.com</u> >			
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 90 days prior to implementation of the change. ON Semiconductor will consider this change accepted, unless an inquiry is made in writing within days of delivery of this notice. To do so, contact <pcn.support@onsemi.com>.</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 11, 2016 or newer.			
Change category:	☐ Wafer Fab Change ☐ Assembly Change ☐ Test Change ☐ Other			
Change Sub-Category(s): Manufacturing Site Change/ Manufacturing Process Chan				
Sites Affected: ☐ All site(s) ☐ not app	licable Son Semiconductor site(s): External Foundry/Subcon site(s) ON Leshan, China			
Description and Purpose:				
ON Semiconductor is notifying customers of its use of 2mils Copper Wire (in place of 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. Reliability Qualification and full electrical characterization over temperature has been performed.				

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Reliability Data Summary:

Qual Vehicle: MVGSF1N03LT1G

PACKAGE: SOT23

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150C	1008 <u>brs.</u>	0/240
PC	J-STD-020 JESD-A113	MSL 1@ 260°C	Before TC, AC, HAST, IOL	
AC	JESD22-A102	121°C, 100% RH, ~15psig, unbiased	96 <u>hrs</u> .	0/240
TC	JESD22-A104	Ta= - 65°C to +150°C	1000 <u>cyc</u>	0/240
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 <u>hrs.</u>	0/240
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Ti=100°C On/off = 2 min	15000 SYS.	0/240
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

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
MGSF1N02LT1G	
MGSF1N03LT1G	MVGSF1N03LT1G
MGSF2N02ELT1G	

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