



Title of Change:	Wire conversion from 2mils Au wire to 2mils bare Cu wire for SOD323 devices		
Proposed first ship date:	9 May 2017		
Contact information:	Contact your local ON Semiconductor Sales Office or <Harry.Tian@onsemi.com>		
Samples:	Contact your local ON Semiconductor Sales Office or <Harry.Tian@onsemi.com>		
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or Zhang Rui <ffvf9f@onsemi.com>		
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 30 days of delivery of this notice. To do so, contact <PCN.Support@onsemi.com>.		
Change Part Identification:	At the expiration of this FPCN devices will be assembled with 2mils bare Cu Wire at ON Semiconductor's existing Leshan facility. Products assembled with 2mils bare Cu Wire from the ON Semiconductor facility will have a Finish Goods Date Code of WW18, 2017 or greater.		
Change category:	☐ Wafer Fab Change ☒ Assembly Change ☐ Test Change ☐ Other _____		
Change Sub-Category(s):	☐ Manufacturing Site Change/Addition ☒ Material Change ☐ Datasheet/Product Doc change ☐ Manufacturing Process Change ☐ Product specific change ☐ Shipping/Packaging/Marking ☐ Other: _____		
Sites Affected:	☐ All site(s) ☐ not applicable ☒ ON Semiconductor site(s): ON Leshan, China ☐ External Foundry/Subcon site(s)		
Description and Purpose:			
ON Semiconductor is notifying customer of its use of 2mils bare Cu wire for SOD323 devices at ON Semiconductor's Leshan, China facility.			
Upon the expiration of this PCN, devices will be built with 2mils bare Cu wire at the same site. Datasheet specifications and product electrical performance remain unchanged. Reliability Qualification and full electrical characterization over temperature have been performed.			
	Before Change	After Change	
Material to be changed	Description	Description	
Bonding Wire	2mils Au wire	2mils Cu wire	

**Reliability Data Summary:**

PACKAGE: SOD323

NSR0320MW2T3G/SD12CT1G

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 100% max rated V	2016hrs	0/252
HTSL	JESD22-A103	Ta= 150°C	2016 hrs	0/273
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	30k cyc	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	2000cyc	0/378
H3TRB	JESD22-A101	85°C, 85% RH, V=80% rated V or 100V max	2016hrs	0/315
PC	J-STD-020 JESD-A113	MSL 1 @ 125°C	-	0/1197
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/90

Electrical Characteristic Summary:

Three temperature characterization and ESD performance meet datasheet specification. Detail of Electrical characterization result is available upon request.

List of affected Standard Parts:

Part Number	Qualification Vehicle
NSR0320MW2T1G	NSR0320MW2T3G
NSR0320MW2T3G	NSR0320MW2T3G
NSR1020MW2T3G	NSR0320MW2T3G
NSRLV20MW2T1G	NSR0320MW2T3G
NSR1020MW2T1G	NSR0320MW2T3G
SD12CT1G	SD12CT1G