

Initial Product/Process Change Notification Document #:IPCN23026X

Issue Date:10 Dec 2019

Wafer top Metal change in ON Semiconductor Seremban and Gold wire to bare copper wire conversion for SOT23 transistor devices assembled in Leshan Phoenix Semiconductor, China.		
01 Aug 2020 or earlier if approved by customer		
Contact your local ON Semiconductor Sales Office or Andy.Tao@onsemi.com		
Contact your local ON Semiconductor Sales Office or <pcn.samples@onsemi.com>. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.</pcn.samples@onsemi.com>		
This is an Initial Product/Process Change Notification (IPCN) sent to customers. 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 90 days prior to implementation of the change. In case of questions, contact <pcn. support@onsemi.com=""></pcn.>		
At the expiration of this PCN devices will be assembled with 2.0mils bare Cu Wire at Leshan Phoenix Semiconductor, China. Products assembled with 2.0 mils bare Cu Wire from the On Semiconductor facility will have a finish goods date code of ww31, 2020 or greater.		
Assembly Change, Wafer Fab Change		
Material Change		
	External Foundry/Subcon Sites	
	None	
	conversion for SOT23 to 01 Aug 2020 or earlier Contact your local ON 3 Sample requests are to Initial PCN or Final PCN Samples delivery timin packing/label requirem This is an Initial Product advance notification at change details and devent plan. The completed que Product/Process Change Change. In case of quest At the expiration of this Phoenix Semiconductor facility Assembly Change, Warney and the position of the Complete of the Product of the Phoenix Semiconductor facility	

Description and Purpose:

	Before Change Description	After Change Description
Bond Wire	2.0 mils gold wire	2.0 mils bare copper wire
Wafer top metal	20KA AlSi	1.5KA TiW+20KA AlSi

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Qualification Plan:

Qual Vehicle Device: NSS30101LT1G/NSV30100LT1G

PACKAGE: SOT23

Test	Specification	Condition	Interval
PC	JESD22-A113	MSL 1 @ 260 °C	Before TC, AC, H3TRB, IOL
AC	JESD22-A102	121°C, 100% RH, ~15psig, unbiased	96 hrs
TC	JESD22-A104	Ta= - 65°C to +150°C	2000 сус
H3TRB	JESD22-A101	85°C, 85% RH, V=80% rated V or 100V max.	2016 hrs
IOL	MIL-STD-750 (M1037)	Ta=+25°C, delta Tj=100°C On/off = 2 min	30000 cyc
HTRB	JEDS22- A108	Tj= max, V=100% rated V, 1008 Hrs	1008hrs
HTSL	JEDS22- A103	Temp.=165°C,no bias,2016hours	2016hrs
RSH	JESD22- B106	Ta = 265C, 10 sec	-
SD	JSTD002	Ta = 2645, 10 sec	-

Estimated date for qualification completion: 30 April 2020

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the <u>PCN Customized Portal</u>.

Part Number	Qualification Vehicle
NSS30101LT1G	NSS30101LT1G
NSS30100LT1G	NSV30100LT1G

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