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**INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION # 20487**Generic Copy

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**Issue Date:** 11-Jun-2014

**TITLE:** Initial Notification of SOT-553 and SOT- 563 package/devices qualification for assembly & test in Leshan, China

**PROPOSED FIRST SHIP DATE:** 17-Nov-2014

**AFFECTED CHANGE CATEGORY(S):** Assembly and test site

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor Sales Office or <[York.Yu@onsemi.com](mailto:York.Yu@onsemi.com)>

**NOTIFICATION TYPE:**

Initial Product/Process Change Notification (IPCN)

First change notification sent to customers. IPCNs are issued at least 120 days prior to implementation of the change. An IPCN is 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.

**DESCRIPTION AND PURPOSE:**

ON Semiconductor is notifying customers of its plan to qualify and transfer the assembly and test of SOT553 and SOT563 packages from ON Semiconductor Seremban facility to ON Semiconductor Leshan facility.

The ON Semiconductor Leshan facility is certified with ISO/TS 16949:2009.



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## **QUALIFICATION PLAN:**

Estimated Date for Qualification Completion: 08/28/2014  
Samples should be available after completion of Qualification.

Reliability testing will be performed on qualification vehicles chosen based on die size, voltage rating and run rates.

#	Test	Name	Test Conditions	End Point Req's	Test Results
					Read Point
1	HTSL	High Temp Storage Life	Ta=150°C	c = 0, Room	1008 Hrs
2	AC+PC	Autoclave+PC	Ta=121°C, RH=100%, Pressure=15psig	c = 0, Room	96 Hrs
3	TC+PC	Temperature Cycle+PC	Ta=-65°C, Tj=150°C, Air-to-air, Dwell = 10 min	c = 0, Room	1000 Cyc
4	H3TRB+PC	High Humidity High Temp Rev Bias+PC	Ta=85°C, RH=85%	c = 0, Room	1008 Hrs
5	IOL+PC	IOL+PC	Δ Tj=+25°C, Tj=100°C, On/Off = 2 min	c = 0, Room	15000 Cyc
6	RSH	Resistance to Solder Heat	Ta: 260°C	c = 0, Room	n/a
7	HTRB+PC	High Temp Reverse Bias + PC	Ta=150°C	c = 0, Room	1008 Hrs



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For automotive customers currently purchasing the standard/commercial parts as stated in table below, the backlogs can be transferred to the respective automotive parts or special parts. The automotive parts are targeted to be transferred to Leshan facility by 25- Sep- 2015.

Std Part	Auto Part
NSS12100XV6T1G	NSV12100XV6T1G
NST30010MXV6T1G	NSVT30010MXV6T1G
NST3904DXV6T5G	SNST3904DXV6T5G
BC847CDXV6T1G	SBC847CDXV6T1G
BAS16DXV6T1G	SBAS16DXV6T1G
NST3904DXV6T1G	NSVT3904DXV6T1G
NSBC123JPDV6T5G	NSVB123JPDV6T1G
NSBC114YDXV6T1G	NSVBC114YDXV6T1G
NSBC143TPDXV6T1G	NSVB143TPDXV6T1G
NL17SZ04XV5T2G	SL17SZ04XV5T2G
EMX1DXV6T1G	NSVEMX1DXV6T1G
NSBC144EPDXV6T1G	NSVB144EPDXV6T1G
NSBC143ZPDV6T1G	NSVB143ZPDV6T1G

Std Part	Auto Part
BC847BPDV6T1G	SBC847BPDV6T1G
NSBC124XPDXV6T1G	NSVB124XPDXV6T1G
NSBC124EDV6T1G	NSVBC124EDV6T1G
NSBA114YDXV6T1G	NSVBA114YDXV6T1G
EMC2DXV5T1G	NSVEMC2DXV5T1G
NSBC114EDV6T1G	NSVBC114EDV6T1G
NSBC114EPDXV6T1G	NSVBC114EPDXV6T1G
NSR0320XV6T1G	NSVR0320XV6T1G
NST30010MXV6T1G	NSVT30010MXV6T1G
NST3904DXV6T1G	SNST3904DXV6T1G
NST3906DXV6T1G	NSVT3906DXV6T1G
NST3946DXV6T1G	NSVT3946DXV6T1G
NZQA6V8XV5T1G	SZQA6V8XV5T1G

Std Part	Special part
NUF2042XV6T1G	SNUF2042XV6T1G
NTZD3152PT1G	STZD3152PT1G
NTZD3154NT1G	STZD3154NT1G
NTZD3155CT1G	STZD3155CT1G
NTZD3155CT2G	STZD3155CT2G



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**List of affected General Parts:**

BAS16DXV6T1G	NL17SZ16XV5T2G	NSBC123JDXV6T1G	NTZD3152PT1H
BAV70DXV6T5G	NL17SZ17XV5T2G	NSBC123JDXV6T5G	NTZD3154NT1G
BC847BPDV6T1G	NL17SZ32XV5T2G	NSBC123JPDV6T1G	NTZD3154NT1H
BC847CDV6T1G	NL17SZU04XV5T2G	NSBC123JPDV6T5G	NTZD3154NT2H
BC847CDV6T1H	NSBA113EDV6T1G	NSBC124EDV6T1G	NTZD3154NT5G
BC858CDV6T1G	NSBA114EDV6T1G	NSBC124EDV6T5G	NTZD3154NT5H
EMC2DXV5T1G	NSBA114TDV6T1G	NSBC124EPDV6T1G	NTZD3155CT1G
EMC3DXV5T1G	NSBA114TDV6T5G	NSBC124EPDV6T5G	NTZD3155CT1H
EMC3DXV5T5G	NSBA114YDV6T1G	NSBC124XDV6T1G	NTZD3155CT2G
EMC4DXV5T1G	NSBA115EDV6T1G	NSBC124XPDV6T1G	NTZD3155CT2H
EMC5DXV5T1G	NSBA123EDV6T1G	NSBC143EDV6T1G	NTZD3155CT5H
EMD4DXV6T1G	NSBA123JDXV6T5G	NSBC143EPDV6T1G	NTZD3158PT1G
EMD4DXV6T5G	NSBA124EDV6T1G	NSBC143TDV6T1G	NTZD5110NT1G
EMD5DXV6T5G	NSBA124XDV6T1G	NSBC143TDV6T5G	NTZS3151PT1G
EMF18XV6T5G	NSBA143EDV6T1G	NSBC143TPDV6T1G	NTZS3151PT1H
EMF5XV6T5G	NSBA143TDV6T1G	NSBC143ZDV6T1G	NUF2042XV6T1G
EMG2DXV5T5G	NSBA143TDV6T5G	NSBC143ZDV6T5G	NUF2230XV6T1G
EMT1DXV6T1G	NSBA143ZDV6T1G	NSBC143ZPDV6T1G	NUP2114UPV5T1G
EMT1DXV6T5G	NSBA144EDV6T1G	NSBC144EDV6T1G	NUP4060AXV6T1G
EMX1DXV6T1G	NSBA144EDV6T5G	NSBC144EDV6T5G	NUP4102XV6T1G
EMX1DXV6T5G	NSBA144WDXV6T1G	NSBC144EPDV6T1G	NUP4114UPV6T1G
EMX2DXV6T5G	NSBC113EDV6T1G	NSBC144EPDV6T5G	NUP5120X6T1G
NCS2003XV53T2G	NSBC113EPDV6T1G	NSBC144WDXV6T1G	NUP5120X6T2G
NL17SV00XV5T2G	NSBC114EDV6T1G	NSDEMP11XV6T1G	NZQA5V6AXV5T1G
NL17SV02XV5T2G	NSBC114EDV6T5G	NSDEMP11XV6T5G	NZQA5V6XV5T1G
NL17SV04XV5T2G	NSBC114EPDV6T1G	NSR0320XV6T1G	NZQA6V2XV5T1G
NL17SV08XV5T2G	NSBC114EPDV6T5G	NSR0320XV6T5G	NZQA6V8AXV5T1G
NL17SV16XV5T2G	NSBC114TDV6T1G	NSS12100XV6T1G	NZQA6V8AXV5T2G
NL17SV32XV5T2G	NSBC114TDV6T5G	NST30010MXV6T1G	NZQA6V8AXV5T3G
NL17SZ00XV5T2G	NSBC114TPDV6T1G	NST3904DXV6T1G	NZQA6V8XV5T1G
NL17SZ02XV5T2G	NSBC114YDV6T1G	NST3904DXV6T5G	NZQA6V8XV5T2G
NL17SZ04XV5T2G	NSBC114YDV6T5G	NST3906DXV6T1G	SL17SZ16XV5T2G
NL17SZ06XV5T2G	NSBC114YPDV6T1G	NST3946DXV6T1G	SNUF2042XV6T1G
NL17SZ07XV5T2G	NSBC114YPDV6T5G	NST3946DXV6T5G	STZD3152PT1G
NL17SZ08XV5T2G	NSBC115EDV6T1G	NSTB1002DXV5T1G	STZD3154NT1G
NL17SZ125XV5T2G	NSBC123EDV6T1G	NSTB1005DXV5T1G	STZD3155CT2G
NL17SZ126XV5T2G	NSBC123EPDV6T1G	NTZD3152PT1G	
NL17SZ14XV5T2G			

**List of affected Customer Specific Parts:**

STZD3155CT1G