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**INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION**  
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20 Nov 2008

**SUBJECT: ON Semiconductor Initial Product/Process Change Notification #16171**

**TITLE: Qualification of ON Semiconductor Seremban Wafer Fab as Secondary Source for Alloy Zener Products.**

**PROPOSED FIRST SHIP DATE: 20 March 2009**

**AFFECTED CHANGE CATEGORY: ON Semiconductor Fab Site**

**AFFECTED PRODUCT DIVISION: Protection & Control Business Unit**

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor Sales Office or YH Soon <[y.soon@onsemi.com](mailto:y.soon@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:**

This is the initial notification announcing that ON Semiconductor is qualifying Seremban Wafer FAB as a secondary source for Alloy Zener technology. This added capacity will allow ON Semiconductor to better service our customers. ON Semiconductor Seremban Wafer FAB is an internal factory that is TS16949, ISO-9001 and ISO-14000 certified. Quality and performance will be equal to current products. Electrical performance, datasheets and package dimensions will not change.

**Initial Product/Process Change Notification #16171****QUALIFICATION PLAN:**

## Qualification Vehicle:

Two different qualification vehicles have been carefully selected to address all critical variables and interactions of wafer design features, process considerations, mechanical construction and electrical characteristics

SOT23 – BZX84C2V4LT1G

SMB – 1SMB5924BT3G

Test:	Condition:	Interval:	Samples Size: (Units x Lots)
TC + PC	T= -65C to 150C	1000 cyc	77 x 4
IOL + PC	TA=25C, TJ = 100C	15000 cyc	77 x 4
H3TRB + PC	T=85C/ 85% RH/ 80% Rated Voltage	1008 hrs	77 x 4
HTSL	TA=150C	1008 hrs	77 x 4
HTRB	TA=150C, 80% Rated Voltage	1008 hrs	77 x 4
AC + PC	T=121C/ 100% RH/ 15 psig	96 hrs	77 x 4
DPA	Per AECQ101, after TC and H3TRB		



**Initial Product/Process Change Notification #16171**

**AFFECTED DEVICE LIST:**

**PART**

1N5333BG  
1N5333BRLG  
1N5334BRLG  
1N5335BG  
1N5335BRLG  
1N5336BG  
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