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**INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION**  
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**09-DEC-2004**

**SUBJECT: ON Semiconductor Initial Product/Process Change Notification #13846**

**TITLE: Seremban Assembly/Test Site Addition for HF & Signal Products in 8 Lead TSSOP Package**

**EFFECTIVE DATE: 09-Apr-2005**

**AFFECTED CHANGE CATEGORY:**  
ON Semiconductor Assembly/Test Site

**AFFECTED PRODUCT DIVISION:**  
ECL Products

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**  
Contact Sales Office or John Veto <RRTD61@onsemi.com>

**NOTIFICATION TYPE:**

Initial Product/Process Change Notification (IPCEN)

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 60 days prior to implementation of the change.

**DESCRIPTION AND PURPOSE:**

ON Semiconductor is pleased to announce the qualification of the ON Semiconductor Seremban facility located in Seremban, Malaysia to assemble and test the listed HF & Signal products in the 8 Lead TSSOP package (also known as Micro 8). Currently, the listed devices are manufactured and tested by Amkor Technology in the Philippines. There will be no changes in device functionality. Reliability will continue to meet or exceed ON Semiconductor's highest standards.



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**QUALIFICATION PLAN:**

| <b>Test</b>            | <b>Conditions</b>                                      | <b>Results</b>        |
|------------------------|--|-----------------------|
| High Temp Reverse Bias | Vds=16V, Ta=150C, 1008 Hrs                             | 0/231                 |
| High Temp Gate Bias    | Vgs=12V, Ta=150C, 1008 Hrs                             | 0/231                 |
| Intermittent Op Life   | Delta Tj=100C, 2min on/off,<br>Tjmax=150C, 7500 cycles | 0/240                 |
| Temperature Cycle      | -65C to +150C, 1000 cycles                             | 0/231                 |
| Autoclave              | 121C, 100%RH,<br>15PSI, 96 Hrs                         | 1/231 (Limit Failure) |
| High Temp Storage      | Ta= 150C   | 0/231                 |
| Solder Heat            | Ta= 260C   | 0/88                  |
| Solder Heat            | Ta= 310C   | 0/85                  |
| Solderability          | Ta= 245C, Steam Age=8Hrs                               | 0/30                  |

**AFFECTED DEVICE LIST (WITHOUT SPECIALS):**

**PART**

MC100EL04DT  
 MC100EL04DTR2  
 MC100EL05DT  
 MC100EL05DTR2  
 MC100EL11DT  
 MC100EL11DTR2  
 MC100EL12DT  
 MC100EL12DTR2  
 MC100EL1648DT  
 MC100EL1648DTR2  
 MC100EL16DT  
 MC100EL16DTR2  
 MC100EL31DT  
 MC100EL31DTR2  
 MC100EL32DT  
 MC100EL32DTR2  
 MC100EL33DT  
 MC100EL33DTR2  
 MC100EL35DT  
 MC100EL35DTR2  
 MC100EL51DT  
 MC100EL51DTR2  
 MC100EL52DT  
 MC100EL52DTR2  
 MC100EL58DT  
 MC100EL58DTR2  
 MC100ELT20DT  
 MC100ELT20DTR2



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MC100ELT21DT  
MC100ELT21DTR2  
MC100ELT22DT  
MC100ELT22DTR2  
MC100ELT23DT  
MC100ELT23DTR2  
MC100ELT24DT  
MC100ELT24DTR2  
MC100ELT25DT  
MC100ELT25DTR2  
MC100ELT28DT  
MC100ELT28DTR2  
MC100EP01DT  
MC100EP01DTR2  
MC100EP05DT  
MC100EP05DTR2  
MC100EP08DT  
MC100EP08DTR2  
MC100EP11DT  
MC100EP11DTR2  
MC100EP16DT  
MC100EP16DTR2  
MC100EP16FDT  
MC100EP16FDTR2  
MC100EP16TDT  
MC100EP16TDTR2  
MC100EP16VADT  
MC100EP16VADTR2  
MC100EP16VBDT  
MC100EP16VBDTR2  
MC100EP16VCDT  
MC100EP16VCDTR2  
MC100EP16VSDT  
MC100EP16VSDTR2  
MC100EP16VTDT  
MC100EP16VTDTR2  
MC100EP31DT  
MC100EP31DTR2  
MC100EP32DT  
MC100EP32DTR2  
MC100EP33DT  
MC100EP33DTR2  
MC100EP35DT  
MC100EP35DTR2  
MC100EP51DT  
MC100EP51DTR2  
MC100EP52DT  
MC100EP52DTR2  
MC100EP58DT  
MC100EP58DTR2  
MC100EPT20DT  
MC100EPT20DTR2  
MC100EPT21DT  
MC100EPT21DTR2  
MC100EPT22DT  
MC100EPT22DTR2



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MC100EPT23DT  
MC100EPT23DTR2  
MC100EPT24DT  
MC100EPT24DTR2  
MC100EPT25DT  
MC100EPT25DTR2  
MC100EPT26DT  
MC100EPT26DTR2  
MC100LVEL05DT  
MC100LVEL05DTR2  
MC100LVEL12DT  
MC100LVEL12DTR2  
MC100LVEL31DT  
MC100LVEL31DTR2  
MC100LVEL33DT  
MC100LVEL51DT  
MC100LVEL51DTR2  
MC100LVEL58DT  
MC100LVEL58DTR2  
MC100LVELT23DT  
MC100LVELT23DTR2  
MC100LVEP11DT  
MC100LVEP11DTR2  
MC100LVEP16DT  
MC100LVEP16DTR2  
MC10EL04DT  
MC10EL04DTR2  
MC10EL05DT  
MC10EL05DTR2  
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MC10EL35DTR2  
MC10EL51DT  
MC10EL51DTR2  
MC10EL52DT  
MC10EL52DTR2  
MC10EL58DT  
MC10EL58DTR2  
MC10EL89DT  
MC10EL89DTR2  
MC10ELT20DT  
MC10ELT20DTR2  
MC10ELT21DT  
MC10ELT21DTR2  
MC10ELT22DT



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MC10ELT22DTR2  
MC10ELT24DT  
MC10ELT24DTR2  
MC10ELT25DT  
MC10ELT25DTR2  
MC10ELT28DT  
MC10ELT28DTR2  
MC10EP01DT  
MC10EP01DTR2  
MC10EP05DT  
MC10EP05DTR2  
MC10EP08DT  
MC10EP08DTR2  
MC10EP11DT  
MC10EP11DTR2  
MC10EP16DT  
MC10EP16DTR2  
MC10EP16TDT  
MC10EP16TDTR2  
MC10EP16VADT  
MC10EP16VADTR2  
MC10EP31DT  
MC10EP31DTR2  
MC10EP32DT  
MC10EP32DTR2  
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MC10EP35DT  
MC10EP35DTR2  
MC10EP51DT  
MC10EP51DTR2  
MC10EP52DT  
MC10EP52DTR2  
MC10EP58DT  
MC10EP58DTR2  
MC10EP89DT  
MC10EP89DTR2  
MC10EPT20DT  
MC10EPT20DTR2  
MC10LVEP11DT  
MC10LVEP11DTR2  
MC10LVEP16DT  
MC10LVEP16DTR2  
NB100ELT23LDT  
NB100ELT23LDTR2  
NB6L11DT  
NB6L11DTR2  
NB6L16DT  
NB6L16DTR2