



**DESIGN/PROCESS CHANGE NOTIFICATION**

This is to inform you that a change is being made to the products listed below.

Unless otherwise indicated in the details of this notification, the identified change will have no impact on product quality, reliability, electrical, visual or mechanical performance and affected products will remain fully compliant to all published specifications. Products incorporating this change may be shipped interchangeably with existing unchanged products.

This change is planned to take effect in 90 calendar days from the date of this notification. Please work with your local ON Sales Representative to manage your inventory of unchanged product if your evaluation of this change will require more than 90 calendar days.

Please contact your local Customer Quality Engineer within 30 days of receipt of this notification if you require any additional data or samples.

**Implementation of change:**

Expected First Shipment Date for Changed Product :Oct. 04, 2017

Expected First Date Code of Changed Product :1741

Description of Change (From) :  
5-inch wafers at ON Semiconductor Bucheon Fab site

Description of Change (To) :  
5-inch wafers at Hangzhou Silan Foundry.

Reason for Change:  
Improve supply flexibility



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**Affected Product(s):**

|              |              |              |
|--------------|--------------|--------------|
| FYA3010DNTU  | FYD0504SATM  | FYP1010DNTU  |
| FYP2006DNTU  | FYP2010DNTU  | FYPF1010DNTU |
| FYPF1545DNTU | FYPF2004DNTU | FYPF2006DNTU |
| FYPF2010DNTU | MBRP1545NTU  | MBRP3010NTU  |
| MBRP3045NTU  |              |              |



| Qualification Plan | Device      | Package | Process  | No. of Lots |
|--------------------|-------------|---------|----------|-------------|
| Q20160233A         | FYP2010DNTU | TO220   | SCHOTTKY | 3           |

| Test Description:                           | Condition:              | Standard :       | Duration:   | Results: |
|---|-------------------------|------------------|-------------|----------|
| High Humidity High Temperature Reverse Bias | 85%RH, 85C, 80V         | JESD22-A101      | 1000 hours  | 0/231    |
| High Temperature Reverse Bias               | 125°C, 80V              | JESD22-A108      | 1000 hours  | 0/231    |
| Power Cycle                                 | Delta 100C, 5 Min cycle | MIL-STD-750-1037 | 6000 cycles | 0/231    |
| Temperature Cycle                           | -65°C, 150°C            | JESD22-A104      | 500 cycles  | 0/231    |

| Qualification Plan | Device      | Package | Process  | No. of Lots |
|--------------------|-------------|---------|----------|-------------|
| Q20160234A         | MBRP3010NTU | TO220   | SCHOTTKY | 1           |

| Test Description:                           | Condition:              | Standard :       | Duration:   | Results: |
|---|-------------------------|------------------|-------------|----------|
| High Humidity High Temperature Reverse Bias | 85%RH, 85C, 80V         | JESD22-A101      | 1000 hours  | 0/77     |
| High Temperature Reverse Bias               | 125°C, 80V              | JESD22-A108      | 1000 hours  | 0/77     |
| Power Cycle                                 | Delta 100C, 5 Min cycle | MIL-STD-750-1037 | 6000 cycles | 0/77     |
| Temperature Cycle                           | -65°C, 150°C            | JESD22-A104      | 500 cycles  | 0/77     |

| Qualification Plan | Device      | Package  | Process  | No. of Lots |
|--------------------|-------------|----------|----------|-------------|
| Q20160234A         | FYV0704SMTF | SOT23 3L | SCHOTTKY | 1           |

| Test Description:  | Condition:              | Standard :       | Duration:    | Results: |
|--|-------------------------|------------------|--------------|----------|
| Preconditioning  | MSL1 @260°C, 3 Cycles   | JESD22-A113      | -            | 0/231    |
| High Humidity High Temperature Reverse Bias with Preconditioning | 85%RH, 85C, 32V         | JESD22-A101      | 1000 hours   | 0/77     |
| High Temperature Reverse Bias                                    | 110°C, 32V              | JESD22-A108      | 1000 hours   | 0/77     |
| Power Cycle with Preconditioning                                 | Delta 100C, 2 Min cycle | MIL-STD-750-1037 | 15000 cycles | 0/77     |
| Temperature Cycle with Preconditioning                           | -65°C, 150°C            | JESD22-A104      | 500 cycles   | 0/77     |



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**Title : Qualification Report for PCN : P65DAAB****Date : Jul. 05, 2017****Affected devices :**

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| Product      | Customer Part Number | BBB | Drawing |
|--------------|----------------------|-----|---------|
| FYD0504SATM  |                      | Y   | N       |
| FYP1010DNTU  |                      | Y   | N       |
| FYP2010DNTU  |                      | Y   | N       |
| FYPF2010DNTU |                      | Y   | N       |

| Product      | Customer Part Number | BBB | Drawing |
|--------------|----------------------|-----|---------|
| FYA3010DNTU  |                      | Y   | N       |
| FYP2006DNTU  |                      | Y   | N       |
| FYPF1545DNTU |                      | Y   | N       |
| FYPF2004DNTU |                      | Y   | N       |
| FYPF2006DNTU |                      | Y   | N       |

**Qualification Test Summary :**



| Qualification Plan | Device      | Package | Process  | No. of Lots |
|--------------------|-------------|---------|----------|-------------|
| Q20160233A         | FYP2010DNTU | TO220   | SCHOTTKY | 3           |

| Test Description:                           | Condition:              | Standard :       | Duration:   | Results: |
|---|-------------------------|------------------|-------------|----------|
| High Humidity High Temperature Reverse Bias | 85%RH, 85C, 80V         | JESD22-A101      | 1000 hours  | 0/231    |
| High Temperature Reverse Bias               | 125°C, 80V              | JESD22-A108      | 1000 hours  | 0/231    |
| Power Cycle                                 | Delta 100C, 5 Min cycle | MIL-STD-750-1037 | 6000 cycles | 0/231    |
| Temperature Cycle                           | -65°C, 150°C            | JESD22-A104      | 500 cycles  | 0/231    |

| Qualification Plan | Device      | Package | Process  | No. of Lots |
|--------------------|-------------|---------|----------|-------------|
| Q20160234A         | MBRP3010NTU | TO220   | SCHOTTKY | 1           |

| Test Description:                           | Condition:              | Standard :       | Duration:   | Results: |
|---|-------------------------|------------------|-------------|----------|
| High Humidity High Temperature Reverse Bias | 85%RH, 85C, 80V         | JESD22-A101      | 1000 hours  | 0/77     |
| High Temperature Reverse Bias               | 125°C, 80V              | JESD22-A108      | 1000 hours  | 0/77     |
| Power Cycle                                 | Delta 100C, 5 Min cycle | MIL-STD-750-1037 | 6000 cycles | 0/77     |
| Temperature Cycle                           | -65°C, 150°C            | JESD22-A104      | 500 cycles  | 0/77     |

| Qualification Plan | Device      | Package  | Process  | No. of Lots |
|--------------------|-------------|----------|----------|-------------|
| Q20160234A         | FYV0704SMTF | SOT23 3L | SCHOTTKY | 1           |

| Test Description:  | Condition:              | Standard :       | Duration:    | Results: |
|--|-------------------------|------------------|--------------|----------|
| Preconditioning  | MSL1 @260°C, 3 Cycles   | JESD22-A113      | -            | 0/231    |
| High Humidity High Temperature Reverse Bias with Preconditioning | 85%RH, 85C, 32V         | JESD22-A101      | 1000 hours   | 0/77     |
| High Temperature Reverse Bias                                    | 110°C, 32V              | JESD22-A108      | 1000 hours   | 0/77     |
| Power Cycle with Preconditioning                                 | Delta 100C, 2 Min cycle | MIL-STD-750-1037 | 15000 cycles | 0/77     |
| Temperature Cycle with Preconditioning                           | -65°C, 150°C            | JESD22-A104      | 500 cycles   | 0/77     |

The selection methodology of qualification vehicles is aligned with JESD47 and if automotive devices are impacted by the PCN the selection of qualification vehicles is also align with the requirements in AEC-Q100 or AEC-Q101

Please contact your local Customer Quality Engineer if you have any questions concerning this data.