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| <b>PRODUCT / PROCESS CHANGE NOTIFICATION</b> |
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|                          |  |
|--------------------------|--|
| <b>1. PCN basic data</b> |  |
|--------------------------|--|

|                             |  |                                      |
|-----------------------------|--|--------------------------------------|
| <b>1.1 Company</b>          |         | STMicroelectronics International N.V |
| <b>1.2 PCN No.</b>          | ADG/19/11389   |                                      |
| <b>1.3 Title of PCN</b>     | Qualification of Protection housed in SMA package at assembly and test location in China |                                      |
| <b>1.4 Product Category</b> | SMA 400W<br>• VRM <= 33 V, VBR <= 39 V<br>• SMAJ5.0A-TR / CA-TR to SMAJ33A-TR / CA-TR    |                                      |
| <b>1.5 Issue date</b>       | 2019-02-18   |                                      |

|                    |  |
|--------------------|--|
| <b>2. PCN Team</b> |  |
|--------------------|--|

|                                  |                          |  |
|----------------------------------|--------------------------|--|
| <b>2.1 Contact supplier</b>      |                          |  |
| <b>2.1.1 Name</b>                | ROBERTSON HEATHER        |  |
| <b>2.1.2 Phone</b>               | +1 8475853058            |  |
| <b>2.1.3 Email</b>               | heather.robertson@st.com |  |
| <b>2.2 Change responsibility</b> |                          |  |
| <b>2.2.1 Product Manager</b>     | Richard RENARD           |  |
| <b>2.2.2 Marketing Manager</b>   | Eric PARIS               |  |
| <b>2.2.3 Quality Manager</b>     | Jean-Paul REBRASSE       |  |

|                  |  |  |
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| <b>3. Change</b> |  |  |
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| <b>3.1 Category</b> | <b>3.2 Type of change</b> | <b>3.3 Manufacturing Location</b>          |
|---------------------|---------------------------|--|
| Materials           | (Not Defined)             | ST assy site in Morocco and subco in China |

|                                 |  |  |
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| <b>4. Description of change</b> |  |  |
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|  | Old                         | New  |
|--|-----------------------------|--|
| <b>4.1 Description</b>   | ST assembly site in Morocco | ST assembly site in Morocco and additional assy subco in China |
| <b>4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?</b> | no                          |  |

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| <b>5. Reason / motivation for change</b> |  |  |
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|                             |   |  |
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| <b>5.1 Motivation</b>       | STMicroelectronics has decided to expand the manufacturing capacity of TVS protection devices housed in SMA package |  |
| <b>5.2 Customer Benefit</b> | CAPACITY INCREASE   |  |

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| <b>6. Marking of parts / traceability of change</b> |  |  |
|---|--|--|

|                        |                                     |  |
|------------------------|-------------------------------------|--|
| <b>6.1 Description</b> | internal codification and QA number |  |
|------------------------|-------------------------------------|--|

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|-----------------------------|--|--|
| <b>7. Timing / schedule</b> |  |  |
|-----------------------------|--|--|

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| <b>7.1 Date of qualification results</b>   | 2019-02-14   |  |
| <b>7.2 Intended start of delivery</b>      | 2019-05-17   |  |
| <b>7.3 Qualification sample available?</b> | Upon Request |  |

|                                      |  |  |
|--------------------------------------|--|--|
| <b>8. Qualification / Validation</b> |  |  |
|--------------------------------------|--|--|

|   |             |                   |
|---|-------------|-------------------|
| <b>8.1 Description</b>                                    |             |                   |
| <b>8.2 Qualification report and qualification results</b> | In progress | <b>Issue Date</b> |

|   |  |  |
|---|--|--|
| <b>9. Attachments (additional documentations)</b> |  |  |
|---|--|--|

| 10. Affected parts      |                         |                          |
|-------------------------|-------------------------|--------------------------|
| 10. 1 Current           |                         | 10.2 New (if applicable) |
| 10.1.1 Customer Part No | 10.1.2 Supplier Part No | 10.1.2 Supplier Part No  |
| SMAJ10CA-TR             | SMAJ10CA-TR             |                          |
| SMAJ12A-TR              | SMAJ12A-TR              |                          |
| SMAJ12CA-TR             | SMAJ12CA-TR             |                          |
| SMAJ130CA-TR            | SMAJ130CA-TR            |                          |
| SMAJ13A-TR              | SMAJ13A-TR              |                          |
| SMAJ13CA-TR             | SMAJ13CA-TR             |                          |
|                         | SMAJ154A-TR             |                          |
| SMAJ15A-TR              | SMAJ15A-TR              |                          |
| SMAJ15CA-TR             | SMAJ15CA-TR             |                          |
| SMAJ18A-TR              | SMAJ18A-TR              |                          |
| SMAJ18CA-TR             | SMAJ18CA-TR             |                          |
|                         | SMAJ20A-TR              |                          |
| SMAJ24A-TR              | SMAJ24A-TR              |                          |
|                         | SMAJ24CA-TR             |                          |
| SMAJ26A-TR              | SMAJ26A-TR              |                          |
|                         | SMAJ26CA-TR             |                          |
| SMAJ28A-TR              | SMAJ28A-TR              |                          |
| SMAJ28CA-TR             | SMAJ28CA-TR             |                          |
| SMAJ30A-TR              | SMAJ30A-TR              |                          |
| SMAJ30CA-TR             | SMAJ30CA-TR             |                          |
| SMAJ33A-TR              | SMAJ33A-TR              |                          |
| SMAJ33CA-TR             | SMAJ33CA-TR             |                          |
| SMAJ5.0A-TR             | SMAJ5.0A-TR             |                          |
| SMAJ5.0CA-TR            | SMAJ5.0CA-TR            |                          |
| SMAJ6.0A-TR             | SMAJ6.0A-TR             |                          |
| SMAJ6.0CA-TR            | SMAJ6.0CA-TR            |                          |
| SMAJ6.5A-TR             | SMAJ6.5A-TR             |                          |
| SMAJ6.5CA-TR            | SMAJ6.5CA-TR            |                          |
| SMAJ70CA-TR             | SMAJ70CA-TR             |                          |
| SMAJ8.5CA-TR            | SMAJ8.5CA-TR            |                          |

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## Public Products List

Public Products are off the shelf products. They are not dedicated to specific customers, they are available through ST Sales team, or Distributors, and visible on ST.com

**PCN Title :** Qualification of Protection housed in SMA package at assembly and test location in China

**PCN Reference :** ADG/19/11389

**Subject :** Public Products List

Dear Customer,

Please find below the Standard Public Products List impacted by the change.

|              |              |              |
|--------------|--------------|--------------|
| SMAJ30A-TR   | SMAJ18A-TR   | SMAJ28A-TR   |
| SMAJ13CA-TR  | SMAJ130CA-TR | SMAJ10CA-TR  |
| SMAJ26A-TR   | SMAJ24A-TR   | SMAJ33CA-TR  |
| SMAJ26CA-TR  | SMAJ12CA-TR  | SMAJ18CA-TR  |
| SMAJ20A-TR   | SMAJ15A-TR   | SMAJ6.5A-TR  |
| SMAJ12A-TR   | SMAJ8.5CA-TR | SMAJ5.0CA-TR |
| SMAJ6.0CA-TR | SMAJ30CA-TR  | SMAJ6.0A-TR  |
| SMAJ13A-TR   | SMAJ15CA-TR  | SMAJ24CA-TR  |
| SMAJ70CA-TR  | SMAJ33A-TR   | SMAJ5.0A-TR  |
| SMAJ28CA-TR  | SMAJ6.5CA-TR | SMAJ154A-TR  |



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