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| <h2 style="margin: 0;">PCN</h2> <h3 style="margin: 0;">Product/Process Change Notification</h3> | | | |
| <h3 style="margin: 0;">Industrial grade qualification of TVS in SMA and SMB packages at Assembly/Test location in China</h3> | | | |
| Notification number: | ADG-DIS/20/12045 | Issue Date | 05/03/2020 |
| Issued by | Aline AUGIS | | |
| Product series affected by the change | <ul style="list-style-type: none"> • Package: SMA and SMB • Product series: <ul style="list-style-type: none"> ○ SMAJ (V_{rm} from 85V to 188V) ○ SMBJ (V_{rm} from 85V to 188V) ○ SMA6J (V_{rm} < 12V and >33V) ○ SM6T (V_{rm} from 85V to 188V) • STRVS185X02B | | |
| Type of change | Assembly and test line multi-sourcing | | |
| Description of the change <p>STMicroelectronics is qualifying according to industrial grade its SMA and SMB package subcontractor in China.</p> | | | |
| Reason for change <p>In the frame of the back-end locations management, ST has initiated a transfer of the SMA and SMB lines from its Bouskoura internal plant (Morocco) to back-end partners. This assembly and test plant in China is a subcontractor already qualified and delivering in high volume for ST on automotive SMA and SMB package lines.</p> | | | |
| Former versus changed product: | <p>The changed products will remain fully compliant with product datasheet in term of electrical, dimensional and thermal parameters.</p> <p>The Moisture Sensitivity Level of the part (according to the IPC/JEDEC JSTD-020D standard) remains unchanged.</p> <p>The footprint recommended by ST remains the same.</p> <p>There is no change in packing modes and standard delivery quantities either.</p> <p>The products remain in full compliance with the ST ECOPACK@2 grade ("halogen-free").</p> | | |
| Disposition of former products <p>As communicated in Corporate PCI 11964, ST Bouskoura SMA and SMB production line discontinuation will occur in W39-2020. Units manufactured at ST Bouskoura will be delivered till stock depletion.</p> | | | |

(1) ADG: Automotive and Discrete Group

Marking and traceability

Parts produced in China are differentiated by their **marking** as indicated below

| Assembly location | Assy plant code | Date code marking | |
|----------------------|---|---------------------------------|--|
| | | Assy year | Assy week |
| Morocco (ST) | CZ (on label) Z (on unit) | Y (1 digit indicating the year) | WW (2 digits indicating the week number) |
| China (subco) | GP (on label) GP (on unit) | | |

Traceability for the implemented change will be ensured by an **internal codification** and by the **Q.A. number**.

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| Forecasted qualification date | 2020 week 39 |
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Forecasted sample availability

| Product family | Sub-family | Commercial part Number | Availability date |
|--------------------------|------------|------------------------|-------------------|
| Protection device | TVS | SMAJ70A-TR | W39-2020 |
| | | SMAJ188A-TR | W39-2020 |
| | | SMAJ170A-TR | W39-2020 |
| | | SMAJ188CA-TR | W39-2020 |
| | | SMA6J5.0CA-TR | W39-2020 |
| | | SMA6J12CA-TR | W39-2020 |
| | | SMA6J15CA-TR | W39-2020 |

Note: Commercial part numbers not included in above table can be delivered on request.

Change implementation schedule

| Sales types | Estimated production start | Estimated first shipments |
|-------------|----------------------------|---------------------------|
| All | 2020 week 40 | 2020 week 42 |

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| Comments: | Sample order must be inserted for sampling |
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Customer's feedback

Please contact your local ST sales representative or quality contact for requests concerning this change notification.

Absence of acknowledgement of this PCN within 30 days of receipt will constitute acceptance of the change

Absence of additional response within 90 days of receipt of this PCN will constitute acceptance of the change

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| Qualification program and results | QRP availability date: 2020 Week 39 |
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