

**Final Product Change Notification**

202006003F01

**Issue Date:** 01-Oct-2020  
**Effective Date:** 30-Mar-2021

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 For detailed information we invite you to view this notification online



**Management Summary**

- Extend the package portfolio with the VSSOP8 (SOT765) package in addition to already released DHVQFN14/16/20/24, SO14/16/20 and TSSOP8/10/14/16/20/24/48 packages in ASEN
- For automotive products

**Change Category**

<input type="checkbox"/> Wafer Fab Process	<input checked="" type="checkbox"/> Assembly Process	<input checked="" type="checkbox"/> Product Marking	<input checked="" type="checkbox"/> Test Location	<input type="checkbox"/> Design
<input type="checkbox"/> Wafer Fab Materials	<input checked="" type="checkbox"/> Assembly Materials	<input type="checkbox"/> Mechanical Specification	<input type="checkbox"/> Test Process	<input type="checkbox"/> Errata
<input type="checkbox"/> Wafer Fab Location	<input checked="" type="checkbox"/> Assembly Location	<input type="checkbox"/> Packing/Shipping/Labeling	<input checked="" type="checkbox"/> Test Equipment	<input type="checkbox"/> Electrical spec./Test coverage

**Transfer of the VSSOP8 (SOT765) package to ASEN (ASE Group, Plant Suzhou China)**

**Details of this Change**

Transfer of the VSSOP8 (SOT765) package from HANA (Hana Semiconductor Ayutthaya Thailand) to ASEN (ASE Group, Plant Suzhou China) for automotive products

- Cu wire BOM selected to introduce zero delamination and Dark-Green (Halogen-free) products
- No change of die
- No change in datasheet, form, fit, function, quality or reliability anticipated

Qualification in accordance to the Automotive Electronics Council:

- AEC-Q100-rev. H Stress Test Qualification for Integrated Circuits
- AEC-Q006-rev. A Qualification requirements for Cu wire interconnection

### Why do we Implement this Change

- Expansion of the package portfolio in ASEN
- Complete transfer to Dark-Green (Halogen-free) products
- Continuous quality improvement for legacy package by introducing zero delamination

### Identification of Affected Products

- The traceability is given by the assembly location indicator suffix which is indicated on the reel and box label
- The change can be identified by backward traceability

## Product Availability

### Sample Information

Samples are available upon request

Samples are available upon request via Helpdesk+ from BG Analog & Logic ICs sample store in Nijmegen The Netherlands

### Production

Planned first shipment 30-Mar-2021

## Impact

- No change in form, fit, function, quality or reliability anticipated
- No change in die (same electrical distribution)
- No change in datasheet and test limits

### Data Sheet Revision

No impact to existing datasheet

### Disposition of Old Products

Existing inventory will be shipped until depleted

## Related Notifications

### Notification Issue Date Effective Date Title

202004003F0120-	Jun-2020	18-Sep-2020	Transfer of the VSSOP8 (SOT765) package to ASEN (ASE Group, Plant Suzhou China)
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## Timing and Logistics

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 30-Oct-2020. Lack of acknowledgement of the PCN constitutes acceptance of the change.

## Remarks

Assembly location indicator suffix on the reel and box label:

"X"= ASEN (ASE Group Assembly & Test Plant Suzhou China)

"p"= HANA (Hana Semiconductor Ayutthaya Thailand)

This notification is the second and final phase and is applicable for automotive customers

## Contact and Support

For all inquiries regarding the ePCN tool application or access issues, please contact Nexperia "Global Quality Support Team".

For all Quality Notification content inquiries, please contact your local Nexperia Sales Support team.

For specific questions on this notice or the products affected please contact our specialist directly:

**e-mail address** PCN-Logic@nexperia.com

At Nexperia B.V. we are constantly striving to improve our product and processes to ensure they reach the highest possible Quality Standards.

## About Nexperia B.V.

We at Nexperia are the efficiency semiconductor company. We deliver over 90 billion products a year and as such service thousands of global customers, both directly and through our extensive network of channel partners. We are at the heart of billions of electronic devices in the Automotive, Mobile, Industrial,

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Changed Orderable Part#	Changed Part 12NC	Changed Part Number	Changed Part Description	Package Outline	Package Name	Status	Product Line
74LVC2T45DC-Q100H	935300461125	74LVC2T45DC-Q100	Translating transceiver	SOT765-1	VSSOP8	RFS	Analog & Logic ICs
74LVCH2T45DC-Q100H	935301408125	74LVCH2T45DC-Q100	Translating transceiver	SOT765-1	VSSOP8	RFS	Analog & Logic ICs
74LVC1G123DC-Q100H	935302106125	74LVC1G123DC-Q100	Single retriggerable monostable multivibrator; Sch	SOT765-1	VSSOP8	RFS	Analog & Logic ICs
74HCT2G125DC-Q100H	935300075125	74HCT2G125DC-Q100	Dual buffer/line driver; 3-state	SOT765-1	VSSOP8	RFS	Analog & Logic ICs
74LVC1G74DC-Q100H	935299293125	74LVC1G74DC-Q100	Single D-type flip-flop	SOT765-1	VSSOP8	RFS	Analog & Logic ICs
74AVC2T45DC-Q100H	935300361125	74AVC2T45DC-Q100	2-bit Dual-supply translator	SOT765-1	VSSOP8	RFS	Analog & Logic ICs