



Final Product/Process Change Notification
Document #:FPCN25223ZB
Issue Date: 13 Jun 2024

Title of Change:	Transfer of assembly operation of SOIC8EP package (Case outline 751AC) from AMKOR (ATP1), Philippines to Hana Semiconductor (Ayutthaya) Co., Ltd., Thailand												
Proposed Changed Material First Ship Date:	20 Dec 2024 or earlier if approved by customer												
Current Material Last Order Date:	N/A <i>Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.</i>												
Current Material Last Delivery Date:	N/A <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>												
Product Category:	Active components – Integrated circuits												
Contact information:	Contact your local onsemi Sales Office or Arvin.Fabila@onsemi.com , Toby.Li@onsemi.com , Naruedol.Srisamran@onsemi.com												
PCN Samples Contact:	Contact your local onsemi Sales Office to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.												
Sample Availability Date:	30 Apr 2024												
PPAP Availability Date:	30 Apr 2024												
Additional Reliability Data:	Contact your local onsemi Sales Office or Chielo.Basa@onsemi.com												
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this proposed change and its conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com .												
Change Category													
Category	Type of Change												
Equipment	Production from a new equipment/tool which uses the same basic technology (replacement equipment or extension of existing equipment pool) without change of process.												
Process - Assembly	Move of all or part of assembly to a different location/site/subcontractor., Change of mold compound, Die attach material												
Description and Purpose:													
To notify customers of onsemi's plans to transfer assembly operations of SOIC8EP package (Case outline 751AC) from AMKOR, Philippines to Hana Semiconductor (Ayutthaya) Co., Ltd., Thailand.													
<table border="1"><thead><tr><th></th><th>From</th><th>To</th></tr></thead><tbody><tr><td>Assembly Site</td><td>AMKOR (ATP1), Philippines</td><td>Hana Semiconductor (Ayutthaya) Co., Ltd., Thailand</td></tr><tr><td>Die Attach</td><td>CRM-1085A (NCV891330xx) ABLESTIK 8290 (NCV890200xx)</td><td>EN4900LC-18</td></tr><tr><td>Mold Compound</td><td>G600</td><td>CV8214C</td></tr></tbody></table>			From	To	Assembly Site	AMKOR (ATP1), Philippines	Hana Semiconductor (Ayutthaya) Co., Ltd., Thailand	Die Attach	CRM-1085A (NCV891330xx) ABLESTIK 8290 (NCV890200xx)	EN4900LC-18	Mold Compound	G600	CV8214C
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Reason / Motivation for Change:		Source/Supply/Capacity Changes Process/Materials Change																																																									
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:		<p>The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded.</p> <p>No anticipated impacts.</p>																																																									
Sites Affected:																																																											
onsemi Sites		External Foundry/Subcon Sites																																																									
None		HANA Semiconductor, Thailand																																																									
Marking of Parts/ Traceability of Change:		Changed material can be identified by assembly plant code.																																																									
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<p>QV DEVICE NAME: NCV8518CPDR2G RMS: 080603, S84317 PACKAGE: SOIC8 EP</p> <table border="1"> <thead> <tr> <th>Test</th><th>Specification</th><th>Condition</th><th>Interval</th><th>Results</th></tr> </thead> <tbody> <tr> <td>HTOL</td><td>JESD22-A108</td><td>Ta= 125°C</td><td>1008 hrs</td><td>0/231</td></tr> <tr> <td>ELFR</td><td>AECQ100-008</td><td>Ta= 125°C</td><td>48 hrs</td><td>0/2400</td></tr> <tr> <td>HTSL</td><td>JESD22-A103</td><td>Ta= 150°C</td><td>1008 hrs</td><td>0/231</td></tr> <tr> <td>TC</td><td>JESD22-A104</td><td>Ta= -65°C to + 150°C</td><td>1000 cyc</td><td>0/231</td></tr> <tr> <td>HAST</td><td>JESD22-A110</td><td>110°C, 85% RH, 18.8psig, bias</td><td>264 hrs</td><td>0/231</td></tr> <tr> <td>uHAST</td><td>JESD22-A118</td><td>130°C, 85% RH, 18.8psig, unbiased</td><td>96 hrs</td><td>0/231</td></tr> <tr> <td>PTC</td><td>JESD22-A105</td><td>Ta= -40°C to + 125°C</td><td>1000 cyc</td><td>0/45</td></tr> <tr> <td>PC</td><td>J-STD-020 JESD-A113</td><td>MSL 2 @ 260°C</td><td></td><td>0/693</td></tr> <tr> <td>SD</td><td>JSTD002</td><td>Ta = 245C, 10 sec</td><td></td><td>0/45</td></tr> <tr> <td>PD</td><td>JESD22-B100 and JESD22-B108</td><td>Per Case Outline</td><td></td><td>0/30</td></tr> </tbody> </table>					Test	Specification	Condition	Interval	Results	HTOL	JESD22-A108	Ta= 125°C	1008 hrs	0/231	ELFR	AECQ100-008	Ta= 125°C	48 hrs	0/2400	HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231	TC	JESD22-A104	Ta= -65°C to + 150°C	1000 cyc	0/231	HAST	JESD22-A110	110°C, 85% RH, 18.8psig, bias	264 hrs	0/231	uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231	PTC	JESD22-A105	Ta= -40°C to + 125°C	1000 cyc	0/45	PC	J-STD-020 JESD-A113	MSL 2 @ 260°C		0/693	SD	JSTD002	Ta = 245C, 10 sec		0/45	PD	JESD22-B100 and JESD22-B108	Per Case Outline		0/30
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<p>Note: AEC-1pager is attached.</p> <p><i>To view attachments:</i></p> <ol style="list-style-type: none"> 1. Download pdf copy of the PCN to your computer 2. Open the downloaded pdf copy of the PCN 3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field 4. Then click on the attached file. 																																																											
Electrical Characteristics Summary:																																																											
Electrical characteristics are not impacted.																																																											



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List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

Current Part Number	New Part Number	Qualification Vehicle
NCV890200PDR2G	NA	NCV8518CPDR2G
NCV891330PD33R2G	NA	NCV8518CPDR2G
NCV891330PD50R2G	NA	NCV8518CPDR2G