



Final Product/Process Change Notification

Document #:FPCN24710X

Issue Date:12 May 2022

Title of Change:	Metal Mask Update to improve the functionality of the logic block.															
Proposed First Ship date:	18 Aug 2022 or earlier if approved by customer															
Contact Information:	Contact your local onsemi Sales Office or Scott.Brow@onsemi.com															
PCN Samples Contact:	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.															
Additional Reliability Data:	Contact your local onsemi Sales Office or Tomas.Vajter@onsemi.com															
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com															
Marking of Parts/ Traceability of Change:	Product marked with WW31 2022 or later															
Change Category:	Wafer Fab Change, Design Change															
Change Sub-Category(s):	Material Change															
Sites Affected:																
onsemi Sites	External Foundry/Subcon Sites															
onsemi, Gresham United States	None															
Description and Purpose: onsemi will release an upgraded silicon version - metal tweak. The new silicon incorporates improved logic block. This upgraded version will replace the controller currently available. Modification details: <ul style="list-style-type: none">Internal fault signal is synchronized with DRV signals.																
Reliability Data Summary: Additional metal tweak reliability data. <table><thead><tr><th>Test</th><th>Specification</th><th>Condition</th><th>Interval</th><th>Results(fail/pass)</th></tr></thead><tbody><tr><td>HTOL</td><td>JESD22-A108</td><td>TA=125C</td><td>168 hrs</td><td>0/80</td></tr><tr><td>ED</td><td>Electrical Distribution</td><td>Critical parameters Room, Hot, Cold</td><td>Result</td><td>CPK>1.67</td></tr></tbody></table>		Test	Specification	Condition	Interval	Results(fail/pass)	HTOL	JESD22-A108	TA=125C	168 hrs	0/80	ED	Electrical Distribution	Critical parameters Room, Hot, Cold	Result	CPK>1.67
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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**.

Part Number	Qualification Vehicle
NCP1680ABD1R2G	NCP1680AAD1R2G
NCP1680AAD1R2G	NCP1680AAD1R2G