



## Final Product/Process Change Notification

Document #: FPCN23247X

Issue Date: 09 Aug 2020

<b>Title of Change:</b>	IPD Metal 2 and Metal 3 Copper-Barrier film improvement.	
<b>Proposed First Ship date:</b>	16 Nov 2020 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:Timothy.Nitschke@onsemi.com">Timothy.Nitschke@onsemi.com</a>	
<b>PCN Samples Contact:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:PCN.samples@onsemi.com">PCN.samples@onsemi.com</a> 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.	
<b>Additional Reliability Data:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:Paul.Syndergaard@onsemi.com">Paul.Syndergaard@onsemi.com</a>	
<b>Type of Notification:</b>	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. ON Semiconductor will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>	
<b>Marking of Parts/ Traceability of Change:</b>	by date of change of lot production	
<b>Change Category:</b>	Wafer Fab Change	
<b>Change Sub-Category(s):</b>	Material Change	
<b>Sites Affected:</b>		
<b>ON Semiconductor Sites</b>	<b>External Foundry/Subcon Sites</b>	
Gresham Factory	None	
<b>Description and Purpose:</b>		
IPD Process improvement at Metal 2 and Metal 3 "Barrier"- seed process steps. Standardizes the IPD copper/barrier process to match Gresham Cu technologies and also known industry BKM for Cu metal barrier protection layers design.		
Will improve stress migration/electromigration performance on affected IPD products.		
There is no product marking change as a result of this change		
<b>Reliability Data Summary:</b>		
Intrinsic reliability data collection – electromigration and stress migration measurements all passing.		
<b>Electrical Characteristics Summary:</b>		
Electrical characteristics are not impacted.		
<b>List of Affected Parts:</b>		
<i><b>Note:</b> 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 <a href="#">PCN Customized Portal</a>.</i>		
<b>Part Number</b>	<b>Qualification Vehicle</b>	
PC-GFA007G-L050	GDA01X8-L05L	



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PC-GFA0087-L05A	GDA01X8-L05L
PC-GFA0093-L05M	GDA01X8-L05L
PC-GFA0099-L05N	GDA01X8-L05L
XC-GFA002E-L01S	GDA01X8-L05L
GDA00P8-L020-ENG	GDA01X8-L05L
GFA002A-L01N-ENG	GDA01X8-L05L
GFA002B-L01P-ENG	GDA01X8-L05L
GFA002C-L01Q-ENG	GDA01X8-L05L
GFA002D-L01R-ENG	GDA01X8-L05L
GFA002E-L01S-ENG	GDA01X8-L05L
GFA002J-L01U-ENG	GDA01X8-L05L
GFA002L-L01V-ENG	GDA01X8-L05L
GFA002M-L01W-ENG	GDA01X8-L05L
GFA0022-L01F-900	GDA01X8-L05L
GFA0029-L01M-ENG	GDA01X8-L05L
PC-D1192871-L053	GDA01X8-L05L
PC-D1192872-L053	GDA01X8-L05L
PC-D1192873-L053	GDA01X8-L05L
PC-D1192874-L053	GDA01X8-L05L
PC-D1192875-L053	GDA01X8-L05L
PC-GFA003R-L02W	GDA01X8-L05L
PC-GFA003V-L02Z	GDA01X8-L05L
PC-GFA003W-L030	GDA01X8-L05L
PC-GFA003X-L031	GDA01X8-L05L
PC-GFA003Y-L032	GDA01X8-L05L
PC-GFA003Z-L033	GDA01X8-L05L
PC-GFA004F-L03J	GDA01X8-L05L
PC-GFA005W-L049	GDA01X8-L05L
PC-GFA007T-L058	GDA01X8-L05L
PC-GFA0042-L035	GDA01X8-L05L
PC-GFA0043-L036	GDA01X8-L05L
PC-GFA0045-L038	GDA01X8-L05L
PC-GFA0065-L04F	GDA01X8-L05L
PC-GFB003X-L031	GDA01X8-L05L



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XC-GFA002F-L01T	GDA01X8-L05L
XC-GFA002T-L021	GDA01X8-L05L
XC-GFA002U-L022	GDA01X8-L05L
XC-GFA002V-L023	GDA01X8-L05L
XC-GFA002W-L024	GDA01X8-L05L
XC-GFA003B-L02J	GDA01X8-L05L
XC-GFA003C-L02K	GDA01X8-L05L
XC-GFA003D-L02G	GDA01X8-L05L
XC-GFA003E-L02H	GDA01X8-L05L
XC-GFA003M-L02R	GDA01X8-L05L
XC-GFA003P-L02T	GDA01X8-L05L
XC-GFA0031-L027	GDA01X8-L05L
XC-GFA0032-L028	GDA01X8-L05L
XC-GFA0033-L029	GDA01X8-L05L
XC-GFA0036-L02C	GDA01X8-L05L
XC-GFA0038-L02D	GDA01X8-L05L
XC-GFB0035-L02B	GDA01X8-L05L