



Initial Product/Process Change Notification

Document #: IPCN23247X

Issue Date: 07 Apr 2020

Title of Change:	IPD Metal 2 and Metal 3 Copper-Barrier film improvement.	
Proposed First Ship date:	07 Oct 2020 or earlier if approved by customer	
Contact Information:	Contact your local ON Semiconductor Sales Office or Timothy.Nitschke@onsemi.com	
PCN Samples Contact:	Contact your local ON Semiconductor Sales Office or PCN.samples@onsemi.com 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.	
Type of Notification:	This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact PCN.Support@onsemi.com	
Marking of Parts/ Traceability of Change:	by date of change of lot production	
Change Category:	Wafer Fab Change	
Change Sub-Category(s):	Material Change	
Sites Affected:		
ON Semiconductor Sites	External Foundry/Subcon Sites	
Gresham Factory	None	
Description and Purpose:		
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.		
Qualification Plan:		
Intrinsic reliability data collection – electromigration and stress migration measurements.		
Estimated date for qualification completion: 9 May 2020		
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	
XC-GFA0020-L01D	GDA01X8-L05L	
XC-GFA002E-L01S	GDA01X8-L05L	



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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
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-GFB0035-L02B	GDA01X8-L05L
XC-GFA0038-L02D	GDA01X8-L05L
XC-GFA0036-L02C	GDA01X8-L05L
XC-GFA0033-L029	GDA01X8-L05L
XC-GFA0032-L028	GDA01X8-L05L
XC-GFA0031-L027	GDA01X8-L05L
XC-GFA003E-L02H	GDA01X8-L05L