



**TITLE: Product/Process Change Notice -Assembly & Test Manufacturing Location Change for Multiple Products (Phase III)**

**RELEASE DATE: 2018-12-12**

**OWNER DEPARTMENT: Product & Test**

**REVISION HISTORY**

(The original approval sheet is kept in DCC)

REVISION	RELEASE DATE	AUTHOR	DESCRIPTION OF CHANGES
A	2018-12-12	Weiwei Liu	original

## PROCESS CHANGE NOTIFICATION

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<b>Assembly &amp; Test Manufacturing Location Change for Multiple Products (Phase III)</b>	PCN #	CN-00410A
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Dear Valued Customer,

This Product Change Notification (PCN) contains advance information about changes we are planning to make to the products that you have purchased within the last two years.

As part of the business development plan, Alpha & Omega Semiconductor (known as AOS) will move the assembly & test manufacturing location of majority packages from AOS Shanghai factory to AOS Chongqing factory (newly established in Chongqing, China). The equipment, process and materials used in AOS Shanghai have been transferred to AOS Chongqing as well. To ensure the seamless operation, AOS Chongqing team has been working & being trained in AOS Shanghai factory. AOS Shanghai team will lead the daily operation in AOS Chongqing factory for a certain period after equipments relocation is done. Every effort has been made to ensure the form, fit, function, quality and reliability of our products will not be affected with this change.

Please acknowledge receipt of this PCN as well as requests within 30 days by signing in at <http://www.aosmd.com/quality/pcn> or sending the enclosed Acknowledgement Form to your local AOS Sales Representative.

Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change.

If you have any questions regarding this change notice, please contact your local AOS Sales Representative.

<http://www.aosmd.com/contact>

Sincerely,

CK OH

Vice President of Quality

Alpha and Omega Semiconductor

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## Process Change Notification

<b>PRODUCT CATEGORY</b>  MOSFET/TVS/IGBT	<b>PRODUCT(S) AFFECTED</b> Please refer the affected part list at the end of this PCN. * This PCN extends to all new related products that may be released after this PCN.		
<b>TYPE OF CHANGE</b>  Assembly & test manufacturing location change.			
<b>DESCRIPTION OF CHANGE</b>  Move the assembly & test manufacturing location from AOS Shanghai factory to AOS Chongqing factory for multiple products.			
<b>REASON FOR CHANGE</b>  Company business strategy.			
<b>SAMPLE AVAILABILITY</b> See appendix (To obtain samples or production devices, please contact your AOS Sales Representative).	<b>FIRST SHIP DATE</b> Estimated to be from Mar. 1st, 2019, or earlier upon customer approval.		
<b>METHOD OF IDENTIFICATION</b>  By assembly location code on product marking. For details, please contact your local AOS sales representatives.			
<b>IMPACT OF CHANGE</b> <b>Form:</b> None; <b>Fit:</b> None <b>Function:</b> None <b>Reliability:</b> None <b>Environment:</b> None			
<b>QUALIFICATION / RELIABILITY DATA:</b>  Reliability Qualification for each package :			
<b>Reliability test</b>			
<b>Test Item</b>	<b>Condition</b>	<b>Time Point</b>	<b>Sample Size</b>
HTGB	T=150°C Vgs=100%Vgsmax	1000 hours	77*3
HTRB	T=150°C Vds=80%Vdsmax	1000 hours	77*3
Solder reflow precondition	MSL soak + 3cycle reflow@ 260°C	-	77*9

TC	-65(+0/-10)°C to +150(+15/-0)°C air to air; 30mins/cycle (preferred)	500 cycles	77*3
HAST	130(±2)°C, 85(±5)%RH, 33.3psia, Vds=80%Vdsmax before arcing (typically ≤42V)	96hours	77*3
PCT	121(±2)°C, 29.7psia, RH=100%	96hours	77*3

Note: the qualification is base on generic product family data.

**PCN RESPONSE:**

Please acknowledge receipt of this PCN within 30 days of delivery  
Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change.

**AOS CONTACTS:**

Please contact your local AOS Sales Representative  
<http://www.aosmd.com/contact/>

## Acknowledgement of Process Change Notification

(Filled by the customer)

### Confirming the Receipt of the PCN

PCN #:

Receiving date (YY/MM/DD):

Receiver:

Department / Title of the receiver:

Signature / Stamp:

### Customer Request

Sample request

Quantity:

Requirement of qualification data:

### Approval of the Change

Approve

Disapprove

Reason of disapproval:

Approver:

Department / Title of the approver:

Signature / stamp:

QRU-00022-02(d)

**Appendix: Affected Product List**

Part number	Estimated sample available date	Estimated completion date of qualification	Remark
AO3160E	Contact Sales for sample schedule	Complete	
AO3406G	Contact Sales for sample schedule	Complete	
AO3407AG	Contact Sales for sample schedule	Complete	
AO3409G	Contact Sales for sample schedule	Complete	
AO3415G	Contact Sales for sample schedule	Complete	
AO4616G	Contact Sales for sample schedule	Complete	
AO4629_DELTA	Contact Sales for sample schedule	Complete	
AO4822AG	Contact Sales for sample schedule	Complete	
AO6070N03	Contact Sales for sample schedule	Complete	
AO6802G	Contact Sales for sample schedule	Complete	
AO7400	Contact Sales for sample schedule	Complete	
AO7401	Contact Sales for sample schedule	Complete	
AO7405	Contact Sales for sample schedule	Complete	
AO7407	Contact Sales for sample schedule	Complete	
AO7408	Contact Sales for sample schedule	Complete	
AO7410	Contact Sales for sample schedule	Complete	
AO7410_001	Contact Sales for sample schedule	Complete	
AO7410_002	Contact Sales for sample schedule	Complete	
AO7410_003	Contact Sales for sample schedule	Complete	

AO7411	Contact Sales for sample schedule	Complete	
AO7411L	Contact Sales for sample schedule	Complete	
AO7412	Contact Sales for sample schedule	Complete	
AO7413	Contact Sales for sample schedule	Complete	
AO7414	Contact Sales for sample schedule	Complete	
AO7414L	Contact Sales for sample schedule	Complete	
AO7415	Contact Sales for sample schedule	Complete	
AO7417	Contact Sales for sample schedule	Complete	
AO7417_001	Contact Sales for sample schedule	Complete	
AO7800	Contact Sales for sample schedule	Complete	
AO7801	Contact Sales for sample schedule	Complete	
AO8801A	Contact Sales for sample schedule	Complete	
AO8808A	Contact Sales for sample schedule	Complete	
AO8810	Contact Sales for sample schedule	Complete	
AO8822	Contact Sales for sample schedule	Complete	
AOB380A60L	Contact Sales for sample schedule	Complete	
AOB42A60AL	Contact Sales for sample schedule	Complete	
AOB66616L	Contact Sales for sample schedule	Complete	
AOBS30B65LN	Contact Sales for sample schedule	Complete	
AOD1R4A70	Contact Sales for sample schedule	Complete	
AOD482G	Contact Sales for sample schedule	Complete	

AOD5B60D	Contact Sales for sample schedule	Complete	
AOD5B60D_001	Contact Sales for sample schedule	Complete	
AOD5B65M1	Contact Sales for sample schedule	Complete	
AOD5B65M1H	Contact Sales for sample schedule	Complete	
AOD5B65N1	Contact Sales for sample schedule	Complete	
AOD5B65ND	Contact Sales for sample schedule	Complete	
AOD603A	Contact Sales for sample schedule	Complete	
AOD603A_101	Contact Sales for sample schedule	Complete	
AOD603A_DELTA	Contact Sales for sample schedule	Complete	
AOD607A	Contact Sales for sample schedule	Complete	
AOD609	Contact Sales for sample schedule	Complete	
AOD609G	Contact Sales for sample schedule	Complete	
AOD609_DELTA	Contact Sales for sample schedule	Complete	
AOD661	Contact Sales for sample schedule	Complete	
AOD66923	Contact Sales for sample schedule	Complete	
AOD6B60M1	Contact Sales for sample schedule	Complete	
AOD7B65M3	Contact Sales for sample schedule	Complete	
AOD950A70	Contact Sales for sample schedule	Complete	
AODH6600	Contact Sales for sample schedule	Complete	
AOI11S60	Contact Sales for sample schedule	Complete	
AOI1R4A70	Contact Sales for sample schedule	Complete	



AOI2610E	Contact Sales for sample schedule	Complete	
AOI294A	Contact Sales for sample schedule	Complete	
AOI296A	Contact Sales for sample schedule	Complete	
AOI2N60	Contact Sales for sample schedule	Complete	
AOI2N60A	Contact Sales for sample schedule	Complete	
AOI2NL60	Contact Sales for sample schedule	Complete	
AOI403	Contact Sales for sample schedule	Complete	
AOI409	Contact Sales for sample schedule	Complete	
AOI409_001	Contact Sales for sample schedule	Complete	
AOI4126	Contact Sales for sample schedule	Complete	
AOI4184	Contact Sales for sample schedule	Complete	
AOI4184_001	Contact Sales for sample schedule	Complete	
AOI4185	Contact Sales for sample schedule	Complete	
AOI4185_001	Contact Sales for sample schedule	Complete	
AOI423	Contact Sales for sample schedule	Complete	
AOI4286	Contact Sales for sample schedule	Complete	
AOI442	Contact Sales for sample schedule	Complete	
AOI444	Contact Sales for sample schedule	Complete	
AOI468	Contact Sales for sample schedule	Complete	
AOI478	Contact Sales for sample schedule	Complete	
AOI4N60	Contact Sales for sample schedule	Complete	

AOI4S60	Contact Sales for sample schedule	Complete	
AOI516_030	Contact Sales for sample schedule	Complete	
AOI538	Contact Sales for sample schedule	Complete	
AOI5N40	Contact Sales for sample schedule	Complete	
AOI66406	Contact Sales for sample schedule	Complete	
AOI7N60	Contact Sales for sample schedule	Complete	
AOI7N60_001	Contact Sales for sample schedule	Complete	
AOI7N65	Contact Sales for sample schedule	Complete	
AOI7S65	Contact Sales for sample schedule	Complete	
AOI8N25	Contact Sales for sample schedule	Complete	
AOI8N25_001	Contact Sales for sample schedule	Complete	
AOI950A70	Contact Sales for sample schedule	Complete	
AOI9N50	Contact Sales for sample schedule	Complete	
AOL1240	Contact Sales for sample schedule	Complete	
AOL1242	Contact Sales for sample schedule	Complete	
AOL1404	Contact Sales for sample schedule	Complete	
AOL1404G	Contact Sales for sample schedule	Complete	
AOL1454	Contact Sales for sample schedule	Complete	
AOL1454G	Contact Sales for sample schedule	Complete	
AOL1454_001	Contact Sales for sample schedule	Complete	
AOL1482	Contact Sales for sample schedule	Complete	

AON1605	Contact Sales for sample schedule	Complete	
AON1605_002	Contact Sales for sample schedule	Complete	
AON1605_003	Contact Sales for sample schedule	Complete	
AON1606	Contact Sales for sample schedule	Complete	
AON1606_002	Contact Sales for sample schedule	Complete	
AON1606_003	Contact Sales for sample schedule	Complete	
AON1634	Contact Sales for sample schedule	Complete	
AON2240	Contact Sales for sample schedule	Complete	
AON2260	Contact Sales for sample schedule	Complete	
AON2290	Contact Sales for sample schedule	Complete	
AON2392	Contact Sales for sample schedule	Complete	
AON2403	Contact Sales for sample schedule	Complete	
AON2403_101	Contact Sales for sample schedule	Complete	
AON2405	Contact Sales for sample schedule	Complete	
AON2405_101	Contact Sales for sample schedule	Complete	
AON2406	Contact Sales for sample schedule	Complete	
AON2408	Contact Sales for sample schedule	Complete	
AON2408_101	Contact Sales for sample schedule	Complete	
AON2408_APP	Contact Sales for sample schedule	Complete	
AON2409	Contact Sales for sample schedule	Complete	
AON2410	Contact Sales for sample schedule	Complete	

AON2411	Contact Sales for sample schedule	Complete	
AON2420	Contact Sales for sample schedule	Complete	
AON2422	Contact Sales for sample schedule	Complete	
AON2801	Contact Sales for sample schedule	Complete	
AON2802	Contact Sales for sample schedule	Complete	
AON2802_101	Contact Sales for sample schedule	Complete	
AON2803	Contact Sales for sample schedule	Complete	
AON2803G	Contact Sales for sample schedule	Complete	
AON2810	Contact Sales for sample schedule	Complete	
AON2812	Contact Sales for sample schedule	Complete	
AON4407	Contact Sales for sample schedule	Complete	
AON4420L	Contact Sales for sample schedule	Complete	
AON4421	Contact Sales for sample schedule	Complete	
AON4703	Contact Sales for sample schedule	Complete	
AON4705	Contact Sales for sample schedule	Complete	
AON4803	Contact Sales for sample schedule	Complete	
AON4803_001	Contact Sales for sample schedule	Complete	
AON4805L	Contact Sales for sample schedule	Complete	
AON5816	Contact Sales for sample schedule	Complete	
AON6108	Contact Sales for sample schedule	Complete	
AON6108FD	Contact Sales for sample schedule	Complete	

AON6108FH	Contact Sales for sample schedule	Complete	
AON6338FD	Contact Sales for sample schedule	Complete	
AON6338FH	Contact Sales for sample schedule	Complete	
AON6586	Contact Sales for sample schedule	Complete	
AON6594	Contact Sales for sample schedule	Complete	
AON6594D	Contact Sales for sample schedule	Complete	
AON6596	Contact Sales for sample schedule	Complete	
AON7422GS_202	Contact Sales for sample schedule	Complete	
AON7934	Contact Sales for sample schedule	Complete	
AON7934_101	Contact Sales for sample schedule	Complete	
AON7934_102	Contact Sales for sample schedule	Complete	
AOND62930	Contact Sales for sample schedule	Complete	
AONH36334	Contact Sales for sample schedule	Complete	
AONR20177	Contact Sales for sample schedule	Complete	
AONR34378	Contact Sales for sample schedule	Complete	
AONR36378	Contact Sales for sample schedule	Complete	
AONS20318	Contact Sales for sample schedule	Complete	
AONS62920	Contact Sales for sample schedule	Complete	
AOSP21321	Contact Sales for sample schedule	Complete	
AOSP66923	Contact Sales for sample schedule	Complete	
AOSX7000R	Contact Sales for sample schedule	Complete	

AOT10B60M1	Contact Sales for sample schedule	Complete	
AOT66616L	Contact Sales for sample schedule	Complete	
AOTF66616L	Contact Sales for sample schedule	Complete	
AOUS66923	Contact Sales for sample schedule	Complete	
AOW66616	Contact Sales for sample schedule	Complete	
AOY2610E	Contact Sales for sample schedule	Complete	
AOY2N60	Contact Sales for sample schedule	Complete	
AOY423	Contact Sales for sample schedule	Complete	
AOY536	Contact Sales for sample schedule	Complete	
AOZ8000HI	Contact Sales for sample schedule	Complete	
AOZ8000HIL	Contact Sales for sample schedule	Complete	
AOZ8000HI_2	Contact Sales for sample schedule	Complete	
AOZ8001DI	Contact Sales for sample schedule	Complete	
AOZ8102DI	Contact Sales for sample schedule	Complete	
AOZ8102DI_2	Contact Sales for sample schedule	Complete	
AOZ8131DI-05L	Contact Sales for sample schedule	Complete	
AOZ8131DI-05L_3	Contact Sales for sample schedule	Complete	
AOZ8204DI	Contact Sales for sample schedule	Complete	
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AOZ8208DI-05	Contact Sales for sample schedule	Complete	
AOZ8211ADI-02	Contact Sales for sample schedule	Complete	

AOZ8211DI-02	Contact Sales for sample schedule	Complete	
AOZ8211DI-03	Contact Sales for sample schedule	Complete	
AOZ8211DI-05	Contact Sales for sample schedule	Complete	
AOZ8211DI-12	Contact Sales for sample schedule	Complete	
AOZ8211DI-24	Contact Sales for sample schedule	Complete	
AOZ8211DI-24_2	Contact Sales for sample schedule	Complete	
AOZ8222DI-05	Contact Sales for sample schedule	Complete	
AOZ8231ADI-02	Contact Sales for sample schedule	Complete	
AOZ8231ADI-03	Contact Sales for sample schedule	Complete	
AOZ8231ADI-03_2	Contact Sales for sample schedule	Complete	
AOZ8231ADI-05	Contact Sales for sample schedule	Complete	
AOZ8231ADI-05_3	Contact Sales for sample schedule	Complete	
AOZ8231ADI-08	Contact Sales for sample schedule	Complete	
AOZ8231ADI-08_2	Contact Sales for sample schedule	Complete	
AOZ8231ADI-12	Contact Sales for sample schedule	Complete	
AOZ8231ADI-24	Contact Sales for sample schedule	Complete	
AOZ8231ADI-24_2	Contact Sales for sample schedule	Complete	
AOZ8231BDI-08	Contact Sales for sample schedule	Complete	
AOZ8234DI-05	Contact Sales for sample schedule	Complete	
AOZ8235DI-05	Contact Sales for sample schedule	Complete	
AOZ8236DI-05	Contact Sales for sample schedule	Complete	

AOZ8244DI-05	Contact Sales for sample schedule	Complete	
AOZ8245DI-05	Contact Sales for sample schedule	Complete	
AOZ8304ADI	Contact Sales for sample schedule	Complete	
AOZ8311DI-26	Contact Sales for sample schedule	Complete	
AOZ8312DI	Contact Sales for sample schedule	Complete	
AOZ8312DI_2	Contact Sales for sample schedule	Complete	
AOZ8314DI	Contact Sales for sample schedule	Complete	
AOZ8318DI	Contact Sales for sample schedule	Complete	
AOZ8328DI	Contact Sales for sample schedule	Complete	
AOZ8806DI-05	Contact Sales for sample schedule	Complete	
AOZ8806DI-05_2	Contact Sales for sample schedule	Complete	
AOZ8807DI-03	Contact Sales for sample schedule	Complete	
AOZ8807DI-05	Contact Sales for sample schedule	Complete	
AOZ8811DI-05	Contact Sales for sample schedule	Complete	
AOZ8822DI-05	Contact Sales for sample schedule	Complete	
AOZ8831ADI-05	Contact Sales for sample schedule	Complete	
AOZ8831ADI-05_2	Contact Sales for sample schedule	Complete	
AOZ8831DI-05	Contact Sales for sample schedule	Complete	
AOZ8832DI-05	Contact Sales for sample schedule	Complete	
AOZ8844DT	Contact Sales for sample schedule	Complete	
AOZ8844DT_2	Contact Sales for sample schedule	Complete	



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AOZ8844DT_3	Contact Sales for sample schedule	Complete	
AOZ8904HI	Contact Sales for sample schedule	Complete	