

**TITLE: Product/Process Change Notice -Additional Assembly & Test Facility For DFN5x6 Clip Package (Phase I)**
**RELEASE DATE: 2019-07-17**
**OWNER DEPARTMENT: Product & Test**
**REVISION HISTORY**

(The original approval sheet is kept in DCC)

REVISION	RELEASE DATE	AUTHOR	DESCRIPTION OF CHANGES
A	2019-07-17	Yi Liu	original

## PROCESS CHANGE NOTIFICATION

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<b>Additional Assembly &amp; Test Facility For DFN5x6 Clip Package (Phase I)</b>	PCN #	CN-00419A
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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.

To increase manufacturing capacity, AOS is qualifying Carsem Semiconductor (Suzhou) Co., Ltd. as an additional Assembly & Test Facility for DFN5x6 Clip package. Carsem has been AOS assembly and test subcontractor for other DFN/QFN package since 2005. The qualification and manufacturing release of DFN5x6 Clip package in Carsem can be divided into several phases. The involved products of phase I are listed in the appendix. The form, fit, function, quality and reliability of our products will not be affected in any way 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,

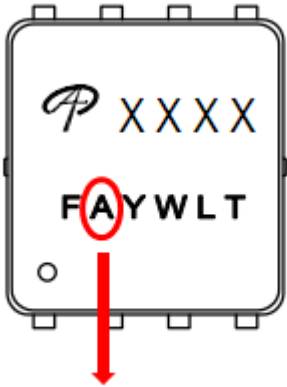
CK OH

Vice President of Quality

Alpha and Omega Semiconductor

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## Process Change Notification

<b>PRODUCT CATEGORY</b>  MOSFET	<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>  Additional Assembly and Test Facility				
<b>DESCRIPTION OF CHANGE</b>  To release Carsem Semiconductor (Suzhou) Co., Ltd. as an additional Assembly & Test Facility.				
<b>REASON FOR CHANGE</b>  To increase manufacturing capacity.				
<b>SAMPLE AVAILIBILITY</b> See appendix (To obtain samples or production devices, please contact your AOS Sales Representative).	<b>FIRST SHIP DATE</b> Estimated to be from Aug.15, 2019, or earlier upon customer approval.			
<b>METHOD OF IDENTIFICATION</b>  By assembly location code on product marking.  <div style="text-align: center;">  </div>				
<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 DFN5x6 Clip package :				
<b>Reliability test</b>				
<b>Test Item</b>	<b>Condition</b>	<b>Time Point</b>	<b>Sample Size</b>	<b>Due Date</b>

HTGB	T=150°C Vgs=100%Vgsmax	1000 hours	77*3	08/12/2019
HTRB	T=150°C Vds=80%Vdsmax	1000 hours	77*3	08/12/2019
Solder reflow precondition	MSL soak + 3cycle reflow@ 260°C	-	77*9	07/25/2019
TC	-65(+0/-10)°C to +150(+15/-0)°C air to air; 30mins/cycle (preferred)	500 cycles	77*3	08/12/2019
HAST	130(±2)°C, 85(±5)%RH, 33.3psia, Vds=80%Vdsmax before arcing (typically ≤42V)	96hours	77*3	07/31/2019
PCT	121(±2)°C, 29.7psia, RH=100%	96hours	77*3	07/31/2019

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/>

QRU-00022-02(d)

## 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
AO6022N03	Contact Sales for sample schedule	8/12/2019	
AO6030N03	Contact Sales for sample schedule	8/12/2019	
AON6104	Contact Sales for sample schedule	8/12/2019	
AON6104FD	Contact Sales for sample schedule	8/12/2019	
AON6104FH	Contact Sales for sample schedule	8/12/2019	
AON6234	Contact Sales for sample schedule	8/12/2019	
AON6334FD	Contact Sales for sample schedule	8/12/2019	
AON6334FH	Contact Sales for sample schedule	8/12/2019	
AON6354	Contact Sales for sample schedule	8/12/2019	
AON6354L	Contact Sales for sample schedule	8/12/2019	
AON6354_001	Contact Sales for sample schedule	8/12/2019	
AON6360	Contact Sales for sample schedule	8/12/2019	
AON6360D	Contact Sales for sample schedule	8/12/2019	
AON6360P	Contact Sales for sample schedule	8/12/2019	
AON6384	Contact Sales for sample schedule	8/12/2019	
AON6406	Contact Sales for sample schedule	8/12/2019	
AON6407	Contact Sales for sample schedule	8/12/2019	
AON6407_001	Contact Sales for sample schedule	8/12/2019	
AON6502	Contact Sales for sample schedule	8/12/2019	

AON6504_002	Contact Sales for sample schedule	8/12/2019	
AON6512	Contact Sales for sample schedule	8/12/2019	
AON6512_002	Contact Sales for sample schedule	8/12/2019	
AON6548	Contact Sales for sample schedule	8/12/2019	
AON6592	Contact Sales for sample schedule	8/12/2019	
AON6704L_002	Contact Sales for sample schedule	8/12/2019	
AONS36314	Contact Sales for sample schedule	8/12/2019	
AONS36323	Contact Sales for sample schedule	8/12/2019	
AONS36344	Contact Sales for sample schedule	8/12/2019	
AONS36344FD	Contact Sales for sample schedule	8/12/2019	
AONS36344FH	Contact Sales for sample schedule	8/12/2019	
AONS36344FV	Contact Sales for sample schedule	8/12/2019	
AONS36356	Contact Sales for sample schedule	8/12/2019	
AONS36356_001	Contact Sales for sample schedule	8/12/2019	