

TITLE: Product/Process Change Notice-Additional Assembly & Test Facility For DFN5x6 Clip Package (Phase II)
RELEASE DATE: 2019-10-10
OWNER DEPARTMENT: Product & Test
REVISION HISTORY

(The original approval sheet is kept in DCC)

REVISION	RELEASE DATE	AUTHOR	DESCRIPTION OF CHANGES
A	2019-10-10	Weiwei Liu	original

PROCESS CHANGE NOTIFICATION

**Additional Assembly & Test Facility For
DFN5x6 Clip Package (Phase II)**

PCN #

CN-00421A

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 II 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>

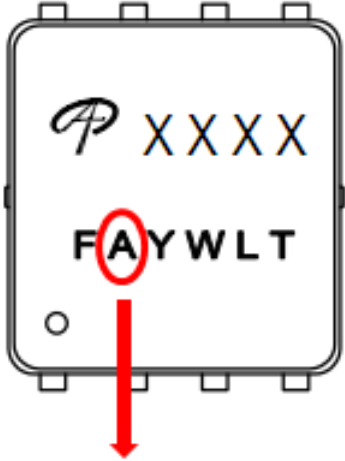
Sincerely,

CK OH

Vice President of Quality

Alpha and Omega Semiconductor

Process Change Notification

PRODUCT CATEGORY MOSFET	PRODUCT(S) AFFECTED 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.
TYPE OF CHANGE Additional Assembly and Test Facility	
DESCRIPTION OF CHANGE To release Carsem Semiconductor (Suzhou) Co., Ltd. as an additional Assembly & Test Facility.	
REASON FOR CHANGE To increase manufacturing capacity.	
SAMPLE AVAILIBILITY See appendix (To obtain samples or production devices, please contact your AOS Sales Representative).	FIRST SHIP DATE Estimated to be from Oct. 30th, 2019, or earlier upon customer approval.
METHOD OF IDENTIFICATION By assembly location code on product marking. <div style="text-align: center;">  </div> <p style="text-align: center;"> Assembly location code P -- Carsem Semiconductor (Suzhou) Co., Ltd. </p>	
IMPACT OF CHANGE Form: None: Fit: None Function: None Reliability: None Environment: None	
QUALIFICATION / RELIABILITY DATA: Reliability Qualification for DFN5x6 Clip package:	

Reliability test			
Test Item	Condition	Time Point	Sample Size
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 based 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/
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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
AON6240	Contact Sales for sample schedule	Complete	
AON6250	Contact Sales for sample schedule	Complete	
AON6290_001	Contact Sales for sample schedule	Complete	
AON6312	Contact Sales for sample schedule	Complete	
AON6314	Contact Sales for sample schedule	Complete	
AON6324	Contact Sales for sample schedule	Complete	
AON6358	Contact Sales for sample schedule	Complete	
AON6382	Contact Sales for sample schedule	Complete	
AON6403	Contact Sales for sample schedule	Complete	
AON6500	Contact Sales for sample schedule	Complete	
AON6792	Contact Sales for sample schedule	Complete	
AON6794	Contact Sales for sample schedule	Complete	
AON6796	Contact Sales for sample schedule	Complete	
AONS36342	Contact Sales for sample schedule	Complete	