

TITLE: Product/Process Change Notice - Additional Assembly & Test Facility For DFN5x6 Clip Package (Phase III)
RELEASE DATE: 2021-09-01
OWNER DEPARTMENT: Product & Test
REVISION HISTORY

(The original approval sheet is kept in DCC)

REVISION	RELEASE DATE	AUTHOR	DESCRIPTION OF CHANGES
A	2021-09-01	Yi Liu	original

PROCESS CHANGE NOTIFICATION

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

PCN #

CN-00454A

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 qualified 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 III 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>

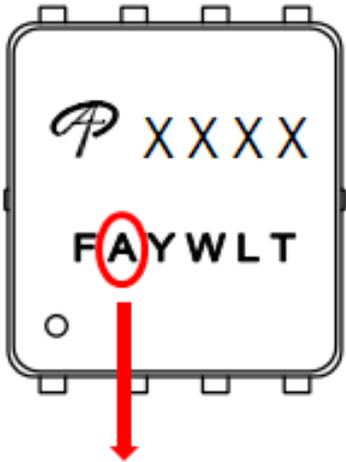
Sincerely,

CK OH

Senior Vice President, 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 for products listed in the appendix.	
REASON FOR CHANGE To increase manufacturing capacity.	
SAMPLE AVAILABILITY See appendix (To obtain samples or production devices, please contact your AOS Sales Representative).	FIRST SHIP DATE Estimated to be from Nov. 30 th , 2021, 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	Result
HTGB	T=150°C Vgs=100%Vgsmax	1000 hours	77*3	Pass
HTRB	T=150°C Vds=80%Vdsmax	1000 hours	77*3	Pass
Solder reflow precondition	MSL soak + 3cycle reflow@ 260°C	-	77*9	Pass
TC	-65(+0/-10)°C to +150(+15/-0)°C air to air; 30mins/cycle (preferred)	500 cycles	77*3	Pass
HAST	130(±2)°C, 85(±5)%RH, 33.3psia, Vds=80%Vdsmax before arcing (typically ≤42V)	96hours	77*3	Pass
PCT	121(±2)°C, 29.7psia, RH=100%	96hours	77*3	Pass
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/		

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
AON6362	Contact Sales for sample schedule	Complete	
AON6362FD	Contact Sales for sample schedule	Complete	
AON6362FH	Contact Sales for sample schedule	Complete	
AON6362P	Contact Sales for sample schedule	Complete	
AON6368	Contact Sales for sample schedule	Complete	
AON6368P	Contact Sales for sample schedule	Complete	
AON6370	Contact Sales for sample schedule	Complete	
AON6370P	Contact Sales for sample schedule	Complete	
AON6370_001	Contact Sales for sample schedule	Complete	
AON6370_002	Contact Sales for sample schedule	Complete	
AON6372	Contact Sales for sample schedule	Complete	
AONS36305	Contact Sales for sample schedule	Complete	
AONS36306	Contact Sales for sample schedule	Complete	
AONS36306D	Contact Sales for sample schedule	Complete	
AONS36306_0C1	Contact Sales for sample schedule	Complete	
AONS36308	Contact Sales for sample schedule	Complete	
AONS36308D	Contact Sales for sample schedule	Complete	
AONS36308FH	Contact Sales for sample schedule	Complete	
AONS36346	Contact Sales for sample schedule	Complete	

AONS36346FD	Contact Sales for sample schedule	Complete	
AONS36346FH	Contact Sales for sample schedule	Complete	
AONS36346FV	Contact Sales for sample schedule	Complete	
AONS36348	Contact Sales for sample schedule	Complete	
AONS36348FD	Contact Sales for sample schedule	Complete	
AONS36348FH	Contact Sales for sample schedule	Complete	
AONS36348FV	Contact Sales for sample schedule	Complete	
AONS36352	Contact Sales for sample schedule	Complete	
AONS36354	Contact Sales for sample schedule	Complete	
AONS36386	Contact Sales for sample schedule	Complete	