Doc No.: CN-00469 Rev.: A Release Date: 2023-08-17

TITLE: Product/Process Change Notice - Additional Assembly and Test Facility for Multiple Products with DFN3X3 Package				
RELEASE DATE: 2023-08-17			OWNER DEPARTMENT: Power IC - CHN	
REVISION HISTORY				
			(The original approval sheet is kept in DCC)	
REVISION	RELEASE DATE	AUTHOR	DESCRIPTION OF CHANGES	
A	2023-08-17	Sihui Li	original	



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# PROCESS CHANGE NOTIFICATION

Additional Assembly and Test Facility for Multiple Products with DFN3X3 Package  CN-00469A				
Dear Valued Customer,				
This Product Change Notification (PCN) contains advance information about changes we are planning to make to products that you have purchased within the last two years.				
To avoid supply shortage and better delivery schedule, AOS plans to extend assembly and testing in United Test and Assembly Center Holdings Ltd, (Thailand). 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 within 30 days by signing in at <a href="http://www.aosmd.com/quality/pcn">http://www.aosmd.com/quality/pcn</a> 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. <a href="http://www.aosmd.com/contact">http://www.aosmd.com/contact</a>				
Sincerely,				
СК ОН				
Senior Vice President of Quality				
Alpha and Omega Semiconductor				

DO NOT COPY WITHOUT ANY AUTHORIZATION OF ALPHA & OMEGA SEMICONDUCTOR, INC.



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# **Process Change Notification**

PRODUCT CATEGORY	PRODUCT(S) AFFECTED
PIC	AOZ1394DI-01, AOZ1398DI-01, AOZ13984DI-02
	* This PCN extends to all new related products that may be released after this PCN.

#### **TYPE OF CHANGE**

- 1. Assembly &Test site change.
- 2. Wire type change.

#### **DESCRIPTION OF CHANGE**

1. Additional Assembly & Test site - UTAC.

Part ID	Current Assembly& Test Site	Target Assembly & Test site	
AOZ1394DI-01			
AOZ1398DI-01	Alpha& Omega Semiconductor (Shanghai)	UTAC( Thailand)/AOS Shanghai	
AOZ13984DI-02		_	

2. Moisture Sensitivity level improvement from 3 to 1. Dry packing to non-dry packing.

Part ID	MSL(AOS)	MSL(UTAC)	remark
AOZ1394DI-01	3	1	change
AOZ13984DI-02			
AOZ1398DI-01	1	1	No change

3. Change bonding wire from Au wire to AuPdCu wire.

#### **REASON FOR CHANGE**

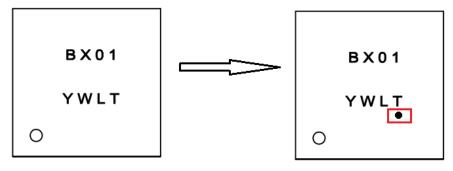
To increase assembly and Test capacity for better delivery schedule and minimizing supply shortage.

# SAMPLE AVAILIBILITY See appendix (To obtain samples or production devices, please contact your AOS Sales Representative). FIRST SHIP DATE Estimated to be from (Aug. 30<sup>th</sup>, 2023), or earlier upon customer approval.

#### METHOD OF IDENTIFICATION

By assembly location code on product marking, example as below:

AOZ1398DI-01 Marking Description (AOS) AOZ1398DI-01 Marking Description (UTAC)



\* Add dot under last character for subcon UTAC



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## **IMPACT OF CHANGE**

Form: None. Fit: None.

Function: None.
Reliability: None.
Environment: None.

# QUALIFICATION / RELIABILITY DATA:

## Reliability Qualification:

Reliability test			
Test Item	Condition	dition Time Point	
HTOL	T <sub>J</sub> = 125°C, VIN = Vccmax	1000 hours	77*3
HTS	150°C	1000 hours	77*3
TC	$T_A = -65$ °C to 150°C, air to air	1000 cycles	77*3
HAST $T_{A}=130^{\circ}\text{C, RH}=85\%,$ $P=33.3\text{psia,}$ $V_{IN}=V\text{ccmax}$		96 hours	77*3
PCT $T_A = 121^{\circ}\text{C}, RH = 100\%, \\ P = 29.7 \text{psia}$		96 hours	77*3

#### **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)

	<b> </b>
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(e)



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**Appendix: Affected Product List** 

Part number	Estimated sample available date	Estimated completion date of qualification	Remark
AOZ1394DI-01	Contact Sales for sample schedule	2023/5/24	
AOZ13984DI-02	Contact Sales for sample schedule	2023/5/24	
AOZ1398DI-01	Contact Sales for sample schedule	2023/5/24	