

**TITLE: Product/Process Change Notice - Additional Assembly & Test Site for Multiple TVS Products (Phase I)**
**RELEASE DATE: 2019-12-31**
**OWNER DEPARTMENT: Product & Test**
**REVISION HISTORY**

(The original approval sheet is kept in DCC)

REVISION	RELEASE DATE	AUTHOR	DESCRIPTION OF CHANGES
A	2019-12-31	Weiwei Liu	original

## PROCESS CHANGE NOTIFICATION

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**Additional Assembly & Test Site for  
Multiple TVS Products (Phase I)**

PCN #

CN-00428A

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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 had qualified Shanghai TRS Microelectronics Co., Ltd. as an additional Assembly & Test Site for multiple TVS Products. The 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>  TVS	<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 Site.	
<b>DESCRIPTION OF CHANGE</b>  To release multiple products in Shanghai TRS Microelectronics Co., Ltd. and there are minor deviations in package appearance. For details, please contact your local AOS sales representatives.	
<b>REASON FOR CHANGE</b>  To increase manufacturing capacity.	
<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 Apr. 20th, 2020, 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> Yes: Minor deviations in package appearance. <b>Fit:</b> None <b>Function:</b> None <b>Reliability:</b> None <b>Environment:</b> None	

**QUALIFICATION / RELIABILITY DATA:**

Reliability Qualification for each package :

Reliability test			
Test Item	Condition	Time Point	Sample Size
HTRB	T=150 °C Vdd=100% VRWMax	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)	1000 cycles	77*3
HAST	130(±2) °C, 85(±5)%RH, 33.3psia, Vdd=80% VRWMax	96hours	77*3
PCT	121(±2) °C, 29.7psia, RH=100%	96hours	77*3
HTS	T=150 °C	1000hours	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
AOZ8101CI	Contact Sales	Complete	
AOZ8105CI	Contact Sales	Complete	
AOZ8105CI_1	Contact Sales	Complete	
AOZ8107DI	Contact Sales	Complete	
AOZ8131DI-05L	Contact Sales	Complete	
AOZ8131DI-05L_3	Contact Sales	Complete	
AOZ8131DI-06	Contact Sales	Complete	
AOZ8211ADI-02	Contact Sales	Complete	
AOZ8211DI-02	Contact Sales	Complete	
AOZ8211DI-03	Contact Sales	Complete	
AOZ8211DI-05	Contact Sales	Complete	
AOZ8211DI-12	Contact Sales	Complete	
AOZ8211DI-24	Contact Sales	Complete	
AOZ8211DI-24_2	Contact Sales	Complete	
AOZ8212ACI-05	Contact Sales	Complete	
AOZ8212BCI-05	Contact Sales	Complete	
AOZ8212BCI-12	Contact Sales	Complete	
AOZ8212BCI-24	Contact Sales	Complete	
AOZ8224CI-05	Contact Sales	Complete	
AOZ8231ADI-02	Contact Sales	Complete	
AOZ8231ADI-03	Contact Sales	Complete	
AOZ8231ADI-03_2	Contact Sales	Complete	
AOZ8231ADI-05	Contact Sales	Complete	
AOZ8231ADI-05_3	Contact Sales	Complete	
AOZ8231ADI-08	Contact Sales	Complete	
AOZ8231ADI-08_2	Contact Sales	Complete	
AOZ8231ADI-12	Contact Sales	Complete	
AOZ8231ADI-24	Contact Sales	Complete	
AOZ8231ADI-24_2	Contact Sales	Complete	
AOZ8300CI-03	Contact Sales	Complete	
AOZ8300CI-05	Contact Sales	Complete	

AOZ8302ACI-05	Contact Sales	Complete	
AOZ8302ACI-12	Contact Sales	Complete	
AOZ8331DI-03	Contact Sales	Complete	
AOZ8331DI-04	Contact Sales	Complete	
AOZ8331DI-05	Contact Sales	Complete	
AOZ8336DI-03	Contact Sales	Complete	
AOZ8804ADI	Contact Sales	Complete	
AOZ8804ADI_2	Contact Sales	Complete	
AOZ8804ADI_3	Contact Sales	Complete	
AOZ8804ADI_4	Contact Sales	Complete	
AOZ8804DI	Contact Sales	Complete	
AOZ8804DI_1	Contact Sales	Complete	
AOZ8804DI_2	Contact Sales	Complete	
AOZ8804DI_3	Contact Sales	Complete	
AOZ8808DI-03	Contact Sales	Complete	
AOZ8808DI-03_2	Contact Sales	Complete	
AOZ8808DI-05	Contact Sales	Complete	
AOZ8808DI-05_2	Contact Sales	Complete	
AOZ8808DI-05_3	Contact Sales	Complete	
AOZ8809ADI-03	Contact Sales	Complete	
AOZ8809ADI-05	Contact Sales	Complete	
AOZ8809DI-03	Contact Sales	Complete	
AOZ8809DI-05	Contact Sales	Complete	
AOZ8809DI-05_1	Contact Sales	Complete	
AOZ8809DI-05_3	Contact Sales	Complete	
AOZ8810DI-03	Contact Sales	Complete	
AOZ8810DI-05	Contact Sales	Complete	
AOZ8819DI-05	Contact Sales	Complete	
AOZ8819DI-05_2	Contact Sales	Complete	
AOZ8829ADI-03	Contact Sales	Complete	
AOZ8829ADI-05	Contact Sales	Complete	
AOZ8829DI-03	Contact Sales	Complete	
AOZ8829DI-03_1	Contact Sales	Complete	
AOZ8829DI-05	Contact Sales	Complete	
AOZ8831ADI-05	Contact Sales	Complete	

AOZ8831ADI-05_2	Contact Sales	Complete	
AOZ8831DI-05	Contact Sales	Complete	
AOZ8839DI-03	Contact Sales	Complete	
AOZ8839DI-05	Contact Sales	Complete	
AOZ8841DI-05	Contact Sales	Complete	
AOZ8847DI	Contact Sales	Complete	
AOZ8858DI-03	Contact Sales	Complete	
AOZ8902CIL	Contact Sales	Complete	
AOZ8902CIL_1	Contact Sales	Complete	
AOZ8902CIL_3	Contact Sales	Complete	
AOZ8903CI	Contact Sales	Complete	
AOZ8903CI_1	Contact Sales	Complete	
AOZ8904CIL	Contact Sales	Complete	
AOZ8904CIL_1	Contact Sales	Complete	
AOZ8905CI	Contact Sales	Complete	
AOZ8906ACI	Contact Sales	Complete	
AOZ8906CI	Contact Sales	Complete	
AOZ8908CI	Contact Sales	Complete	
AOZ8914CI	Contact Sales	Complete	
AOZ8914CI_1	Contact Sales	Complete	
AOZ8915CI	Contact Sales	Complete	
AOZ8915CI_2	Contact Sales	Complete	
AOZ8925CI	Contact Sales	Complete	
AOZ8S309UD4-03	Contact Sales	Complete	
AOZ8S401US4-05	Contact Sales	Complete	
AOZ8S506BS2-05	Contact Sales	Complete	