

TITLE: Product/Process Change Notice -Additional Assembly & Test Manufacturing Location for SOT23 package products					
RELEASE D	ATE: 2021-04-2	22	OWNER DEPARTMENT: Product & Test		
	REVISION HISTORY				
			(The original approval sheet is kept in DCC)		
REVISIONRELEASE DATEAUTHORDESCRIPTION OF CHANGES					
А	2021-04-22	Yuye Cao	original		



PROCESS CHANGE NOTIFICATION

Additional Assembly & Test Manufacturing Location	PCN #	CN-00449A
for SOT23 package products	run #	CN-00449A

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 increase manufacturing capacity, we qualified Qingdao TRS Microelectronics Co. LTD (known as QTM) as an additional Assembly & Test manufacturing location for SOT23 package products. The affected products are listed in the appendix. The fit, function, quality and reliability of our products will not be affected within this change.

Please acknowledge receipt of this PCN within 30 days by signing in at <u>http://www.aosmd.com/quality/pcn</u> 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. <u>http://www.aosmd.com/contact</u>

Sincerely,

CK OH

Senior Vice President of Quality

Alpha and Omega Semiconductor



Rev.A

Page: 3/5

Process Change Notification

PRODUCT CATEGORY	PRODUCT(S) AFFECTED
MOSFET	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.

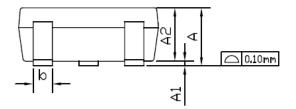
TYPE OF CHANGE

Additional Assembly & test manufacturing location.

DESCRIPTION OF CHANGE

Add QTM as an additional assembly & test manufacturing location for SOT23 package products.

There are minor deviations in package outline:



SYMBOL	Original Spec		New Spec			
STIVIDUL	MIN	NOM	MAX	MIN	NOM	MAX
A1	0		0.13	0		0.15
A2	0.7	1	1.15	0.7	1.05	1.2

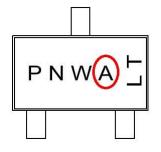
REASON FOR CHANGE

To increase manufacturing capacity.

SAMPLE AVAILIBILITY	FIRST SHIP DATE
See appendix	Estimated to be from Jul, 28 th , 2021, or earlier upon customer
(To obtain samples or production devices, please	approval.
contact your AOS Sales Representative).	

METHOD OF IDENTIFICATION

Assembly location code "G" will be printed on the surface marking of the product. For details, please contact your local AOS sales representatives.



A-Assembly location code: "G"-Qingdao TRS Microelectronics Co. LTD



Rev.A

IMPACT OF CHANGE

Form: Yes, Minor deviations in Package Outline Fit: None Function: None Reliability: None Environment: None

QUALIFICATION / RELIABILITY DATA:

Reliability Qualification for SOT23 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%Vds	max	1000 hours	77*3
Precon	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, Vds=80%Vdsmax		96hours	77*3
РСТ	121(±2)°C, 29.7psia, RH=100%		96hours	77*3
Note: the qualification	n is based on generic product fa	amily data.		I
PCN RESPONSE: Please acknowledge receip of delivery Lack of acknowledgement constitutes acceptance of t	Please co	DNTACTS: entact your local AOS S w.aosmd.com/contact/		

QRU-00022-02(d)



Rev.A

Acknowledgement of Process Change Notification

(Filled by the customer)

	Thice by the editoriter)
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)



Rev. A

Appendix: Affected Product List

Part number	Estimated sample available date	Estimated completion date of qualification	Remark
AO3400	Contact Sales	Complete	
AO3400A	Contact Sales	Complete	
AO3400C	Contact Sales	Complete	
AO3400L	Contact Sales	Complete	
AO3400L_101	Contact Sales	Complete	
AO3400L_DELTA	Contact Sales	Complete	
AO3400_DELTA	Contact Sales	Complete	
AO3401	Contact Sales	Complete	
AO3401A	Contact Sales	Complete	
AO3401A_101	Contact Sales	Complete	
AO3401A_102	Contact Sales	Complete	
AO3401A_201	Contact Sales	Complete	
AO3401A_2C1	Contact Sales	Complete	
AO3401A_2C2	Contact Sales	Complete	
AO3401A_DELTA	Contact Sales	Complete	
AO3401C	Contact Sales	Complete	
AO3401_101	Contact Sales	Complete	
AO3402	Contact Sales	Complete	
AO3402C	Contact Sales	Complete	
AO3402_102	Contact Sales	Complete	
AO3403	Contact Sales	Complete	
AO3403_102	Contact Sales	Complete	
AO3404A	Contact Sales	Complete	
AO3404AL	Contact Sales	Complete	
AO3404AL_104	Contact Sales	Complete	
AO3404A_101	Contact Sales	Complete	
AO3404A_102	Contact Sales	Complete	
AO3404A_103	Contact Sales	Complete	
AO3404A_201	Contact Sales	Complete	
AO3404A_202	Contact Sales	Complete	
AO3404A_DELTA	Contact Sales	Complete	

ALPHA & OMEGA SEMICONDUCTOR

CN-00449

CIN-00449		Rev. A	
AO3406	Contact Sales	Complete	
AO3406G	Contact Sales	Complete	
AO3406G_DELTA	Contact Sales	Complete	
AO3406_101	Contact Sales	Complete	
AO3406_106	Contact Sales	Complete	
AO3406_2C1	Contact Sales	Complete	
AO3406_DELTA	Contact Sales	Complete	
AO3407	Contact Sales	Complete	
AO3407A	Contact Sales	Complete	
AO3407AG	Contact Sales	Complete	
AO3407AG_DELT A	Contact Sales	Complete	
AO3407AL	Contact Sales	Complete	
AO3407A_102	Contact Sales	Complete	
AO3407A_103	Contact Sales	Complete	
AO3407A_201	Contact Sales	Complete	
AO3407A_202	Contact Sales	Complete	
AO3407A_2C1	Contact Sales	Complete	
AO3407B	Contact Sales	Complete	
AO3407B_101	Contact Sales	Complete	
AO3407_DELTA	Contact Sales	Complete	
AO3409	Contact Sales	Complete	
AO3409G	Contact Sales	Complete	
AO3409G_DELTA	Contact Sales	Complete	
AO3409L_101	Contact Sales	Complete	
AO3409L_102	Contact Sales	Complete	
AO3409L_103	Contact Sales	Complete	
AO3409_104	Contact Sales	Complete	
AO3413	Contact Sales	Complete	
AO3413_101	Contact Sales	Complete	
AO3414	Contact Sales	Complete	
AO3414_105	Contact Sales	Complete	
AO3414_106	Contact Sales	Complete	
AO3414_201	Contact Sales	Complete	
AO3415	Contact Sales	Complete	

ALPHA & OMEGA SEMICONDUCTOR

CN-00449

CN-00449		Kev. A	
AO3415A	Contact Sales	Complete	
AO3415AL	Contact Sales	Complete	
AO3415AL_001	Contact Sales	Complete	
AO3415AL_105	Contact Sales	Complete	
AO3415AS	Contact Sales	Complete	
AO3415AS_101	Contact Sales	Complete	
AO3415AS_102	Contact Sales	Complete	
AO3415AS_201	Contact Sales	Complete	
AO3415AS_202	Contact Sales	Complete	
AO3415A_101	Contact Sales	Complete	
AO3415A_104	Contact Sales	Complete	
AO3415A_105	Contact Sales	Complete	
AO3415A_202	Contact Sales	Complete	
AO3415C	Contact Sales	Complete	
AO3415G	Contact Sales	Complete	
AO3415_107	Contact Sales	Complete	
AO3416	Contact Sales	Complete	
AO3416_101	Contact Sales	Complete	
AO3416_102	Contact Sales	Complete	
AO3416_103	Contact Sales	Complete	
AO3418	Contact Sales	Complete	
AO3419	Contact Sales	Complete	
AO3420	Contact Sales	Complete	
AO3420_103	Contact Sales	Complete	
AO3421	Contact Sales	Complete	
AO3421E	Contact Sales	Complete	
AO3421E_101	Contact Sales	Complete	
AO3422	Contact Sales	Complete	
AO3422_101	Contact Sales	Complete	
AO3422_102	Contact Sales	Complete	
AO3422_103	Contact Sales	Complete	
AO3422_104	Contact Sales	Complete	
AO3423	Contact Sales	Complete	
AO3424	Contact Sales	Complete	
AO3424L	Contact Sales	Complete	

ALPHA & OMEGA SEMICONDUCTOR

CN-00449

CIN-00449		Rev. A	_
AO3424_101	Contact Sales	Complete	
AO3424_201	Contact Sales	Complete	
AO3434A	Contact Sales	Complete	
AO3434A_101	Contact Sales	Complete	
AO3434A_102	Contact Sales	Complete	
AO3434A_201	Contact Sales	Complete	
AO3434LS	Contact Sales	Complete	
AO3434LS_201	Contact Sales	Complete	
AO3434LS_202	Contact Sales	Complete	
AO3434L_001	Contact Sales	Complete	
AO3435	Contact Sales	Complete	
AO3435_101	Contact Sales	Complete	
AO3435_103	Contact Sales	Complete	
AO3437	Contact Sales	Complete	
AO3438_001	Contact Sales	Complete	
AO3442	Contact Sales	Complete	
AO3442_101	Contact Sales	Complete	
AO3442_201	Contact Sales	Complete	
AO3451	Contact Sales	Complete	
AO3480C	Contact Sales	Complete	
AO3481C	Contact Sales	Complete	
AO3482C	Contact Sales	Complete	
AO3485C	Contact Sales	Complete	
AO3499	Contact Sales	Complete	
AOSS21115C	Contact Sales	Complete	
AOSS21115C_2C1	Contact Sales	Complete	
AOSS21115S	Contact Sales	Complete	
AOSS21311C	Contact Sales	Complete	
AOSS21311S	Contact Sales	Complete	
AOSS21319C	Contact Sales	Complete	
AOSS21319C_2C1	Contact Sales	Complete	
AOSS21319S	Contact Sales	Complete	
AOSS32136C	Contact Sales	Complete	
AOSS32136S	Contact Sales	Complete	
AOSS32146C	Contact Sales	Complete	



CN-00449

AOSS32334C	Contact Sales	Complete	
AOSS32334S	Contact Sales	Complete	
AOSS32338C	Contact Sales	Complete	
AOSS32338C_2C1	Contact Sales	Complete	
AOSS32338S	Contact Sales	Complete	
AOSS62934	Contact Sales	Complete	