

TITLE: Product/Process Change Notice - Update datasheet of certain MOSFET products
RELEASE DATE: 2017-02-08
OWNER DEPARTMENT: Marketing - PIC Product Line
REVISION HISTORY

(The original approval sheet is kept in DCC)

REVISION	RELEASE DATE	AUTHOR	DESCRIPTION OF CHANGES
A	2017-02-08	Weiwei Liu	original

PROCESS CHANGE NOTIFICATION

Update datasheet of certain MOSFET products	PCN #	CN-00365A
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Dear Valued Customer,

This Product Change Notification (PCN) contains information about changes we are planning to make to products that you have purchased within the last two years.

We had issued CN-00360 to add Jireh Semiconductor Incorporated (wholly-owned subsidiary of AOS, 3131 NE Brookwood Parkway, Hillsboro, OR 97124), as the wafer manufacturing location of multiple MOSFET products. Every effort has been made to match the electrical parameters and to maintain the existing data sheet limits. However, there will be minor deviations for some parts. Benchmark reports comparing the new and existing products are available and the datasheet will be updated accordingly. The involved products are listed in the appendix.

Please acknowledge receipt of this PCN 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.
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TYPE OF CHANGE Datasheet update

DESCRIPTION OF CHANGE AO3406 for example:									
Symbol	Parameter	Conditions	original			Proposal			Units
			Min		Max	Min		Max	
C _{ISS}	Input Capacitance	V _{GS} =0V, V _{DS} =15V, f=1MHz		170	210		229	275	pF
R _g	Gate resistance	V _{GS} =0V, V _{DS} =0V, f=1MHz	1.7	3.5	5.3	0.7	1.2	3.0	ohm
Q _g (10V)	Total Gate Charge	V _{GS} =10V, V _{DS} =15V, I _D =3.5A		4.1	5.0		4.9	10.0	nC
Q _g (4.5V)	Total Gate Charge			2.0	3.0		2.5	6.0	nC
t _{rr}	Body Diode Reverse Recovery Time	I _F =3.5A, dI/dt=100A/ms		7.5	10.0		9.0	13.0	ns

For other products please contact your local AOS Sales Representative if you need the detail information.

REASON FOR CHANGE Some parameters were changed due to subtle process difference between Jireh and original wafer supplier

SAMPLE AVAILABILITY See appendix (To obtain samples or production devices, please contact your AOS Sales Representative).	FIRST SHIP DATE Estimated to be from Mar, 12 th , 2017, or earlier upon customer approval.
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METHOD OF IDENTIFICATION Estimated to start from Date Code: '17F'

IMPACT OF CHANGE Form: None Fit: None Function: Yes Reliability: None Environment: None
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QUALIFICATION / RELIABILITY DATA:			
a) Reliability Qualification			
Reliability test plan			
Test Item		Test Condition	Sample Size
Reliability Test	HTGB	1000hrs T=150°C, Vgs=100% Vgsmax	77x3
	HTRB	1000hrs T=150°C, Vds=100% Vdsmax	77x3

b) Parametric benchmark report

Please contact your local AOS Sales Representative if you require the qualification 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
AO3406	6 weeks per request	Complete	
AO3406L	6 weeks per request	Complete	
AO3406L_104	6 weeks per request	Complete	
AO3406L_106	6 weeks per request	Complete	
AO3406L_DELTA	6 weeks per request	Complete	
AO3406_101	6 weeks per request	Complete	
AO3406_104	6 weeks per request	Complete	
AO3406_106	6 weeks per request	Complete	
AO3456	6 weeks per request	Complete	
AO4627	6 weeks per request	Complete	
AO4627_101	6 weeks per request	Complete	
AO4862	6 weeks per request	Complete	
AO6602	6 weeks per request	Complete	
AO6602L	6 weeks per request	Complete	
AO6602L_DELTA	6 weeks per request	Complete	
AO6802	6 weeks per request	Complete	
AO6802L	6 weeks per request	Complete	
AO6802_DELTA	6 weeks per request	Complete	
AON3611	6 weeks per request	Complete	
AON3611_101	6 weeks per request	Complete	
AON3611_DELTA	6 weeks per request	Complete	
AON4605	6 weeks per request	Complete	
AON4605_002	6 weeks per request	Complete	
AON6411	6 weeks per request	Complete	
AON7611	6 weeks per request	Complete	