

TITLE: Additional vendor of the epoxy for AO3401A(L)
RELEASE DATE: 2013-08-21
OWNER DEPARTMENT: Product & Test
REVISION HISTORY

(The original approval sheet is kept in DCC)

REVISION	RELEASE DATE	AUTHOR	DESCRIPTION OF CHANGES
A	2013-08-21	Weiwei Liu	original

PROCESS CHANGE NOTIFICATION

**Additional vendor of the epoxy for
AO3401A(L)**

PCN #

CN-00317A

Dear Valued Customer,

This letter and attached Product Change Notification (PCN) are to inform you of changes to a product that you have purchased within the last two years.

In order to have an additional vendor for same material and can maintain competitive lead times and "on time" delivery, AOS has qualified a new vendor of the epoxy for AO3401A(L).

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,

EC Wong
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.			
TYPE OF CHANGE Material				
DESCRIPTION OF CHANGE Original epoxy is 84-1 from Henkel. New epoxy is H9818 from Namics.				
REASON FOR CHANGE Add additional vendor (second source) for same material.				
SAMPLE AVAILABILITY Available (To obtain samples or production devices, please contact your AOS Sales Representative).	FIRST SHIP DATE Jan. 20 th 2014 or earlier upon customer approval.			
METHOD OF IDENTIFICATION Start from Date Code: '14B'.				
IMPACT OF CHANGE Form: None, Fit: None Function: None Reliability: None Environment: None				
QUALIFICATION / RELIABILITY DATA: 1. Reliability test result				
Reliability test result				
	Test Item	Test Condition	Sample Size	Result
Reliability test	Solder reflow precondition(*)	85(±3)%RH, 85(±2)°C 168(+5/-0)hrs + 3cycle reflow	77x6+ 55x3	Pass
	Temperature Cycle (**)	500cycles -65(+0/-10)°C to +150(+15/-0)°C air to air; 20mins/cycle	77x3	Pass
	Pressure Pot (**)	96hrs 121(±2)°C, P= 2 atm, RH=100%	77x3	Pass
	HAST (**)	96hrs 130(±2)°C, 85(±5)%RH, Vbr=80%Vbrmax.	55x3	Pass
Notes	*In compliance with JEDEC MSL Level 1 (260C) **Solder reflow precondition is required prior to the test			

2. Thermal Resistance comparison

Thermal Characteristics							
Parameter		Symbol	Typ	Original	New	Max	Units
Maximum Junction-to-Ambient ^A	$t \leq 10s$	$R_{\theta JA}$	70	73	67	90	°C/W
Maximum Junction-to-Ambient ^{A,D}	Steady-State		100	99	94	125	°C/W

New epoxy's thermal resistance performance a little better than original one's and is well within specification.

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(c)

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(c)

Appendix: Affected Product List

Part number	Estimated sample available date	Estimated completion date of qualification	Remark
AO3401A	Available	Completed	
AO3401AL	Available	Completed	