

TITLE: Product/Process Change Notice -Molding Compounds Change for Multiple Products in TO220F & TO262F package (Phase III)
RELEASE DATE: 2021-02-19
OWNER DEPARTMENT: Product & Test
REVISION HISTORY

(The original approval sheet is kept in DCC)

REVISION	RELEASE DATE	AUTHOR	DESCRIPTION OF CHANGES
A	2021-02-19	Yuye Cao	original

PROCESS CHANGE NOTIFICATION

**Molding Compounds Change for Multiple
Products in TO220F & TO262F package
(Phase III)**

PCN #

CN-00441A

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.

Due to the discontinuation of the supply of molding compounds from Samsung SDI Co., Ltd, Alpha & Omega Semiconductor has qualified new molding compounds from KCC Corporation and Panasonic Industrial Devices Materials (Shanghai) Co., Ltd. for TO220F & TO262F package to avoid supplying shortage. The transition of the molding compound is planned in several phases. The affected products in phase III are listed in the appendix. 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 <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

Senior 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 related products that may be released after this PCN.															
TYPE OF CHANGE Molding compound change																
DESCRIPTION OF CHANGE Change the molding compound supplier from Samsung SDI to KCC and Panasonic. For details, please contact your local AOS sales representatives.																
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Package</th> <th colspan="2">Original</th> <th colspan="2">New</th> </tr> <tr> <th>Supplier</th> <th>Type</th> <th>Supplier</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td rowspan="2">TO220F/TO262F</td> <td rowspan="2">Samsung SDI</td> <td>Non-Halogen Free (RoHS compliance)</td> <td rowspan="2">1. KCC 2. Panasonic</td> <td rowspan="2">Halogen Free (Green compound)</td> </tr> <tr> <td>Halogen Free (Green compound)</td> </tr> </tbody> </table>		Package	Original		New		Supplier	Type	Supplier	Type	TO220F/TO262F	Samsung SDI	Non-Halogen Free (RoHS compliance)	1. KCC 2. Panasonic	Halogen Free (Green compound)	Halogen Free (Green compound)
Package	Original		New													
	Supplier	Type	Supplier	Type												
TO220F/TO262F	Samsung SDI	Non-Halogen Free (RoHS compliance)	1. KCC 2. Panasonic	Halogen Free (Green compound)												
		Halogen Free (Green compound)														
REASON FOR CHANGE Product Discontinuance from Samsung SDI, avoid supplying shortage																
SAMPLE AVAILABILITY See appendix (To obtain samples or production devices, please contact your AOS Sales Representative).	FIRST SHIP DATE Estimated to be from May, 28 th , 2021, or earlier upon customer approval.															
METHOD OF IDENTIFICATION Estimated to start from Date Code: '21N'. For details, please contact your local AOS sales representatives.																
IMPACT OF CHANGE Form: None Fit: None Function: None Reliability: None Environment: None																
QUALIFICATION / RELIABILITY DATA: Reliability Qualification :																
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%Vdsmax	1000 hours	77*3													

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 before arcing (typically ≤42V)	96hours	77*3
PCT	121(±2)°C, 29.7psia, RH=100%	96hours	77*3

Note: the qualification is based 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/>

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
AOTF095A60L_3C1	Contact Sales	NA	
AOTF160A60L_001	Contact Sales	NA	
AOTF190A60CL_001	Contact Sales	NA	
AOTF190A60CL_D ELTA	Contact Sales	NA	
AOTF240L	Contact Sales	NA	
AOTF256L	Contact Sales	NA	
AOTF2606L	Contact Sales	NA	
AOTF260L	Contact Sales	NA	
AOTF2610L	Contact Sales	NA	
AOTF2618L	Contact Sales	NA	
AOTF266L	Contact Sales	NA	
AOTF266L_001	Contact Sales	NA	
AOTF290L	Contact Sales	NA	
AOTF380A60CL_001	Contact Sales	NA	
AOTF380A60CL_3C1	Contact Sales	NA	
AOTF4126	Contact Sales	NA	
AOTF4126_001	Contact Sales	NA	
AOTF450A70L	Contact Sales	NA	
AOTF454L	Contact Sales	NA	
AOTF454L_001	Contact Sales	NA	
AOTF600A60L_3C1	Contact Sales	NA	
AOTF600A70FL_3C1	Contact Sales	NA	
AOTF66613L	Contact Sales	NA	
AOTF66616L	Contact Sales	NA	
AOTF66616L_800	Contact Sales	NA	

AOTF780A70L	Contact Sales	NA	
AOWF10N60_DELTA	Contact Sales	NA	
AOWF125A60_3C1	Contact Sales	NA	
AOWF190A60C_3C1	Contact Sales	NA	
AOWF190A60_301	Contact Sales	NA	
AOWF296	Contact Sales	NA	
AOWF360A70_3C1	Contact Sales	NA	
AOWF380A60C_3C1	Contact Sales	NA	
AOWF412	Contact Sales	NA	
AOWF450A70	Contact Sales	NA	
AOWF780A70	Contact Sales	NA	