

Doc No.: CN-00438 Rev.: A Release Date: 2020-10-03

TITLE: Product/Process Change Notice - Molding Compounds Change for Multiple Products in TO220(F) & TO262F package (Phase II)					
RELEASE DA	RELEASE DATE: 2020-10-03 OWNER DEPARTMENT: Product & Test				
REVISION HISTORY					
	(The original approval sheet is kept in DCC)				
REVISION	RELEASE DATE	DESCRIPTION OF CHANGES			
A	2020-10-03	Yuye Cao	original		

Alpha and Omega Semiconductor

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PROCESS CHANGE NOTIFICATION

Molding Compounds Change for Multiple Products in TO220(F) & TO262F package (Phase II)	PCN#	CN-00438A
Dear Valued Customer,		
This Product Change Notification (PCN) contains products that you have purchased within the last two		ormation about changes we are planning to make to
Semiconductor has qualified new molding compout Ltd., KCC Corporation and SD materials (Suzhou) CTO220F & TO262F package to avoid supplying statements.	ands from Par Co., Ltd (orig shortage. The are listed in	nds from Samsung SDI Co., Ltd, Alpha & Omeganasonic Industrial Devices Materials (Shanghai) Co., ginal Hitachi Chemical (Suzhou) Co., Ltd) for TO220 e transition of the molding compound is planned in the appendix. The form, fit, function, quality and schange.
Please acknowledge receipt of this PCN within 30 d the enclosed Acknowledgement Form to your local Acknowledgement Form t		ng in at http://www.aosmd.com/quality/pcn or sending epresentative.
Lack of acknowledgement of the PCN within 30 day	vs constitutes	acceptance of the change.
If you have any questions regarding this change notion http://www.aosmd.com/contact	ce, please cor	ntact your local AOS Sales Representative.
Sincerely,		
СК ОН		
Vice President of Quality		
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Process Change Notification

PRODUCT CATEGORY	PRODUCT(S) AFFECTED		
	Please refer the affected part list at the end of this PCN.		
MOSFET	* 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 Panasonic, KCC and SD (original Hitachi). For details, please contact your local AOS sales representatives.

Package	(Original	New	
	Supplier	Type	Supplier	Type
TO220F/TO262F		Pb Free Type	1. Panasonic	
		Halogen Free type (Green compound)	2. KCC	
TO220	Samsung SDI	Pb Free Type	SD (original Hitachi) KCC	Halogen Free type (Green compound)

REASON FOR CHANGE

Product Discontinuance from Samsung SDI, avoid supplying shortage

SAMPLE AVAILIBILITY

See appendix

(To obtain samples or production devices, please contact your AOS Sales Representative).

FIRST SHIP DATE

Estimated to be from Jan, 10th, 2021, or earlier upon customer approval.

METHOD OF IDENTIFICATION

Estimated to start from Date Code: '21A'.

IMPACT OF CHANGE

Form: None
Fit: None
Function: None
Reliability: None
Environment: None

QUALIFICATION / RELIABILITY DATA:

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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)



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Acknowledgement of Process Change Notification

(Filled by the customer)

Confirming the Receipt of the PCN	, and the second	
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:		

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Appendix: Affected Product List

Part number	Estimated sample available date	Estimated completion date of qualification	Remark
AOT1N60	Contact Sales	Complete	
AOT32374C	Contact Sales	Complete	
AOT3N100	Contact Sales	Complete	
AOT5N100	Contact Sales	Complete	
AOT7N60	Contact Sales	Complete	
AOT7N60_001	Contact Sales	Complete	
AOTF095A60L	Contact Sales	Complete	
AOTF095A60L_0C 1	Contact Sales	Complete	
AOTF10N60_001	Contact Sales	Complete	
AOTF11N70	Contact Sales	Complete	
AOTF11N70L	Contact Sales	Complete	
AOTF11N70_001	Contact Sales	Complete	
AOTF11N70_002	Contact Sales	Complete	
AOTF125A60L	Contact Sales	Complete	
AOTF125A60L_3C	Contact Sales	Complete	
AOTF12N50_009	Contact Sales	Complete	
AOTF12N65L_001	Contact Sales	Complete	
AOTF160A60L	Contact Sales	Complete	
AOTF160A60L_0C	Contact Sales	Complete	
AOTF190A60BL	Contact Sales	Complete	
AOTF190A60CL	Contact Sales	Complete	
AOTF190A60CL_0 C1	Contact Sales	Complete	
AOTF190A60CL_0 C2	Contact Sales	Complete	
AOTF190A60L	Contact Sales	Complete	
AOTF190A60L_00 1	Contact Sales	Complete	
AOTF190A60L_00 2	Contact Sales	Complete	



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AOTF190A60L_00	Contact Sales	Complete	
AOTF190A60L_0C	Contact Sales	Complete	
AOTF280A60L	Contact Sales	Complete	
AOTF280A60L_00	Contact Sales	Complete	
AOTF280A60L_0C	Contact Sales	Complete	
AOTF286L	Contact Sales	Complete	
AOTF288L	Contact Sales	Complete	
AOTF2910L	Contact Sales	Complete	
AOTF2916L	Contact Sales	Complete	
AOTF292L	Contact Sales	Complete	
AOTF296L	Contact Sales	Complete	
AOTF360A70L	Contact Sales	Complete	
AOTF360A70L_0C	Contact Sales	Complete	
AOTF360A70L_3C	Contact Sales	Complete	
AOTF360A70ZL	Contact Sales	Complete	
AOTF380A60CL	Contact Sales	Complete	
AOTF380A60CL_0 C1	Contact Sales	Complete	
AOTF380A60L	Contact Sales	Complete	
AOTF380A60L_00	Contact Sales	Complete	
AOTF380A60L_0C	Contact Sales	Complete	
AOTF409	Contact Sales	Complete	
AOTF409_002	Contact Sales	Complete	
AOTF4185	Contact Sales	Complete	
AOTF4185GL	Contact Sales	Complete	
AOTF4185_001	Contact Sales	Complete	
AOTF600A60L	Contact Sales	Complete	
AOTF600A70FL	Contact Sales	Complete	
AOTF600A70FL_0 C1	Contact Sales	Complete	
AOTF600A70L	Contact Sales	Complete	



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AOTF7N70	Contact Sales	Complete	
AOTF7N70L	Contact Sales	Complete	
AOTF9N70	Contact Sales	Complete	
AOTF9N70L	Contact Sales	Complete	
AOTF9N70L_001	Contact Sales	Complete	
AOTF9N70_001	Contact Sales	Complete	
AOTF9N70_002	Contact Sales	Complete	
AOWF095A60	Contact Sales	Complete	
AOWF11N70	Contact Sales	Complete	
AOWF125A60	Contact Sales	Complete	
AOWF160A60	Contact Sales	Complete	
AOWF190A60	Contact Sales	Complete	
AOWF190A60C	Contact Sales	Complete	
AOWF280A60	Contact Sales	Complete	
AOWF360A70	Contact Sales	Complete	
AOWF380A60C	Contact Sales	Complete	
AOWF600A60	Contact Sales	Complete	
AOWF600A70	Contact Sales	Complete	
AOWF600A70F	Contact Sales	Complete	
AOWF9N70	Contact Sales	Complete	