

Doc No.: CN-00433

TITLE: Product/Process Change Notice -Molding Compounds Change for Multiple Products in TO220(F) & TO262F package (Phase I)					
RELEASE DATE: 2020-07-08 OWNER DEPARTMENT: Product & Test					
REVISION HISTORY					
			(The original approval sheet is kept in DCC)		
REVISION RELEASE DATE AUTHOR DESCRIPTION OF CHANGES					
A 2020–07–08 Yuye Cao original			original		



PROCESS CHANGE NOTIFICATION

Molding Compounds Change for Multiple		
Products in TO220(F) & TO262F package	PCN #	CN-00433A
(Phase I)		

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 Panasonic Industrial Devices Materials (Shanghai) Co., Ltd. and KCC Corporation for TO220, TO220F & TO262F package to avoid supplying shortage. The transition of the molding compound is planned in several phases. The affected products in phase I 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 <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

Vice President of Quality

Alpha and Omega Semiconductor



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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/IGBT	* 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 and KCC. For details, please contact your local AOS sales representatives.

Orig	ginal	New		
Supplier Type		Supplier	Туре	
	Pb Free Type	Panasonic	Halogen Free type	
Samsung SDI	Halogen Free type (Green compound)	KCC	(Green compound)	

REASON FOR CHANGE

Product Discontinuance from Samsung SDI, avoid supplying shortage

SAMPLE AVAILIBILITY	FIRST SHIP DATE
See appendix	Estimated to be from Oct, 20 th , 2020, or earlier upon customer
(To obtain samples or production devices, please	approval.
contact your AOS Sales Representative).	
METHOD OF IDENTIFICATION	

Estimated to start from Date Code: '202'.

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			



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	тс	-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.			Please co	ONTACTS: ontact your local AOS S vw.aosmd.com/contact/	1	



Acknowledgement of Process Change Notification

(Filled by the customer)

	The 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
AOTF10B60D	Contact Sales	Complete	
AOTF10B60D2	Contact Sales	Complete	
AOTF10B65M1	Contact Sales	Complete	
AOTF10B65M1_00 1	Contact Sales	Complete	
AOTF10B65M1_00 2	Contact Sales	Complete	
AOTF10B65M2	Contact Sales	Complete	
AOTF10B65MQ2	Contact Sales	Complete	
AOTF10N50FD	Contact Sales	Complete	
AOTF10N60	Contact Sales	Complete	
AOTF10N60CL	Contact Sales	Complete	
AOTF10N60L	Contact Sales	Complete	
AOTF10N60_001	Contact Sales	Complete	
AOTF10N60_002	Contact Sales	Complete	
AOTF10N60_004	Contact Sales	Complete	
AOTF10N62	Contact Sales	Complete	
AOTF10N65	Contact Sales	Complete	
AOTF10N65L	Contact Sales	Complete	
AOTF10N65_001	Contact Sales	Complete	
AOTF11N60	Contact Sales	Complete	
AOTF11N60L	Contact Sales	Complete	
AOTF11N62L	Contact Sales	Complete	
AOTF11S60L	Contact Sales	Complete	
AOTF11S60L_001	Contact Sales	Complete	
AOTF11S65	Contact Sales	Complete	
AOTF11S65L	Contact Sales	Complete	
AOTF12N30	Contact Sales	Complete	
AOTF12N50	Contact Sales	Complete	
AOTF12N50L	Contact Sales	Complete	
AOTF12N50L_001	Contact Sales	Complete	

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AOTF12N50_003	Contact Sales	Complete
AOTF12N50_004	Contact Sales	Complete
AOTF12N50_006	Contact Sales	Complete
AOTF12N50_008	Contact Sales	Complete
AOTF12N50_009	Contact Sales	Complete
AOTF12N60	Contact Sales	Complete
AOTF12N60L	Contact Sales	Complete
AOTF12N60_001	Contact Sales	Complete
AOTF12N60_002	Contact Sales	Complete
AOTF12N65	Contact Sales	Complete
AOTF12N65L	Contact Sales	Complete
AOTF12N65L_001	Contact Sales	Complete
AOTF12N65_002	Contact Sales	Complete
AOTF12N65_003	Contact Sales	Complete
AOTF12N65_004	Contact Sales	Complete
AOTF13N50	Contact Sales	Complete
AOTF13N50L	Contact Sales	Complete
AOTF13N50_001	Contact Sales	Complete
AOTF13N50_002	Contact Sales	Complete
AOTF14N50	Contact Sales	Complete
AOTF14N50L	Contact Sales	Complete
AOTF14N50_001	Contact Sales	Complete
AOTF14N50_003	Contact Sales	Complete
AOTF15B60D	Contact Sales	Complete
AOTF15B65M1	Contact Sales	Complete
AOTF15B65M2	Contact Sales	Complete
AOTF15B65M3	Contact Sales	Complete
AOTF15B65MQ1	Contact Sales	Complete
AOTF15S60	Contact Sales	Complete
AOTF15S60L	Contact Sales	Complete
AOTF15S65	Contact Sales	Complete
AOTF15S65L	Contact Sales	Complete
AOTF16N50	Contact Sales	Complete
AOTF16N50L	Contact Sales	Complete
AOTF18N65	Contact Sales	Complete

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CIN-00433		Kev. A	
AOTF18N65L	Contact Sales	Complete	
AOTF20B65LN2	Contact Sales	Complete	
AOTF20B65M1	Contact Sales	Complete	
AOTF20B65M2	Contact Sales	Complete	
AOTF20N40	Contact Sales	Complete	
AOTF20N40L	Contact Sales	Complete	
AOTF20N60	Contact Sales	Complete	
AOTF20N60_001	Contact Sales	Complete	
AOTF20S60L	Contact Sales	Complete	
AOTF20S60L_002	Contact Sales	Complete	
AOTF2142L	Contact Sales	Complete	
AOTF2144L	Contact Sales	Complete	
AOTF2146L	Contact Sales	Complete	
AOTF22N50	Contact Sales	Complete	
AOTF22N50L	Contact Sales	Complete	
AOTF22N50_002	Contact Sales	Complete	
AOTF25S65	Contact Sales	Complete	
AOTF25S65L	Contact Sales	Complete	
AOTF27S60L	Contact Sales	Complete	
AOTF27S60L_001	Contact Sales	Complete	
AOTF27S60_900	Contact Sales	Complete	
AOTF29S50	Contact Sales	Complete	
AOTF29S50L	Contact Sales	Complete	
AOTF3N50L	Contact Sales	Complete	
AOTF42S60	Contact Sales	Complete	
AOTF42S60L	Contact Sales	Complete	
AOTF4N60	Contact Sales	Complete	
AOTF4N60L	Contact Sales	Complete	
AOTF4N60_001	Contact Sales	Complete	
AOTF4N60_DELT A	Contact Sales	Complete	
AOTF4S60	Contact Sales	Complete	
AOTF5B60D	Contact Sales	Complete	
AOTF5B65M1	Contact Sales	Complete	
AOTF5B65M2	Contact Sales	Complete	

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		Kev. A	
AOTF5N50	Contact Sales	Complete	
AOTF5N50B	Contact Sales	Complete	
AOTF5N50FD	Contact Sales	Complete	
AOTF5N50L	Contact Sales	Complete	
AOTF5N50_001	Contact Sales	Complete	
AOTF66462L	Contact Sales	Complete	
AOTF66464L	Contact Sales	Complete	
AOTF66466L	Contact Sales	Complete	
AOTF66920L	Contact Sales	Complete	
AOTF7N60	Contact Sales	Complete	
AOTF7N60FD	Contact Sales	Complete	
AOTF7N60FD_001	Contact Sales	Complete	
AOTF7N60L	Contact Sales	Complete	
AOTF7N60L_002	Contact Sales	Complete	
AOTF7N60L_003	Contact Sales	Complete	
AOTF7N60_001	Contact Sales	Complete	
AOTF7N60_003	Contact Sales	Complete	
AOTF7N60_DELT A	Contact Sales	Complete	
AOTF7N65	Contact Sales	Complete	
AOTF7N65L	Contact Sales	Complete	
AOTF7N65L_001	Contact Sales	Complete	
AOTF7N65L_003	Contact Sales	Complete	
AOTF7N65_002	Contact Sales	Complete	
AOTF7S60L	Contact Sales	Complete	
AOTF7S65	Contact Sales	Complete	
AOTF7S65L	Contact Sales	Complete	
AOTF8B65MQ1	Contact Sales	Complete	
AOTF8N50	Contact Sales	Complete	
AOTF8N50L	Contact Sales	Complete	
AOTF8N50L_004	Contact Sales	Complete	
AOTF8N50_001	Contact Sales	Complete	
AOTF8N50_005	Contact Sales	Complete	
AOTF8N65	Contact Sales	Complete	
AOTF8N65L	Contact Sales	Complete	

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Contact Sales	Complete	
	Contact Sales Contact Sales	Contact SalesCompleteContact Sales<