



Final Product/Process Change Notification

Document #:FPCN22647XYU

Issue Date:15 May 2020

Title of Change:	EMC Change for the devices which use Samsung SDI EMC-For TO220F-4L.	
Proposed First Ship date:	22 Aug 2020 or earlier if approved by customer	
Contact Information:	Contact your local ON Semiconductor Sales Office or SangSeop.Kim@onsemi.com	
PCN Samples Contact:	Contact your local ON Semiconductor Sales Office or PCN.samples@onsemi.com Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or Lake.Wang@onsemi.com	
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. ON Semiconductor will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com	
Marking of Parts/ Traceability of Change:	Material marked with date code 2032 or later will be assembled with new mold compound	
Change Category:	Assembly Change	
Change Sub-Category(s):	Material Change	
Sites Affected:		
ON Semiconductor Sites	External Foundry/Subcon Sites	
ON Semiconductor Suzhou, China	None	
Description and Purpose:		
ON Semiconductor would like to notify our customers of our qualification of a change in mold compound for the product listed in this FPCN at our ON Suzhou, China facility.		
	Before Change Description	After Change Description
Mold Compound	SG8300HK; Supplier: Samsung SDI	CV4380HNS; Supplier: Panasonic
This change was necessitated by an End of Life (EOL) notification from Samsung for the mold compounds listed above.		
And There is no product marking change as a result of this change		



Reliability Data Summary:

QV DEVICE NAME: KA5L0380RYDTU

RMS : U65505/K65503

PACKAGE : TO220F_4L

Test	Specification	Test Conditions	Interval	Results
HTBB	M750-1048	Ta = 125C for device, bias = 100% of max rated BV	1008 hrs	0/231
HTOL	JESD22 A108	Tj = 140C for device, bias = Drain 800V, Vcc 24V	1008 hrs	0/231
HTSL	JESD22 A103	TA = 150°C for 1008 hours	1008 hrs	0/231
TC	JESD22-A104	Temp = -55°C to +150°C; for 1000 cycles	1000 cyc	0/231
HAST	JESD22 A110	Temp= +130°C, RH=85% , p = 18.8 psig, bias= 100V BV	96hr	0/231
RSH	JESD22-B106	Ta=265°C 10 sec dwell	10s	0/30
SD	J STD 002	Ta=245C 5 sec dwell	5s	0/45
TR		Thermal Resistance		0/30

Electrical Characteristics Summary:

Electrical characteristics are not impacted by this change. Electrical comparison reports are available upon request.

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

Part Number	Qualification Vehicle
KA5M0380RTU	KA5H0380RTU
KA5M0380RYDTU	KA5H0380RTU
KA1H0165RTU	KA5H0380RTU
KA1M0565RTU	KA5H0380RTU
KA1M0565RYDTU	KA5H0380RTU
KA5H0165RTU	KA5H0380RTU
KA5H0165RYDTU	KA5H0380RTU
KA5H0365RTU	KA5H0380RTU
KA5H0380RTU	KA5H0380RTU
KA5H0380RYDTU	KA5H0380RTU
KA5L0380RYDTU	KA5H0380RTU
KA5L0565RYDTU	KA5H0380RTU
KA5M0265RYDTU	KA5H0380RTU
KA5M0365RTU	KA5H0380RTU
KA5M0365RYDTU	KA5H0380RTU



Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
KA1M0565RTU		KA5H0380RTU	NA	
KA5H0165RTU		KA5H0380RTU	NA	
KA5M0380RTU		KA5H0380RTU	NA	
KA5M0380RYDTU		KA5H0380RTU	NA	
KA5H0380RTU		KA5H0380RTU	NA	
KA5H0380RYDTU		KA5H0380RTU	NA	
KA5L0380RYDTU		KA5H0380RTU	NA	
KA5M0365RTU		KA5H0380RTU	NA	
KA5M0365RYDTU		KA5H0380RTU	NA	
KA5H0365RTU		KA5H0380RTU	NA	