



# Final Product/Process Change Notification

Document #:FPCN22647XAI

Issue Date:01 Apr 2020

<b>Title of Change:</b>	Mold compound change due to End of Life of Samsung SDI EMC for products in TO3P & TO247 Package.	
<b>Proposed First Ship date:</b>	08 Jul 2020 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:Bokyun.Seo@onsemi.com">Bokyun.Seo@onsemi.com</a>	
<b>PCN Samples Contact:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:PCN.samples@onsemi.com">PCN.samples@onsemi.com</a> 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.	
<b>Additional Reliability Data:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:Lake.Wang@onsemi.com">Lake.Wang@onsemi.com</a>	
<b>Type of Notification:</b>	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 <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>	
<b>Marking of Parts/ Traceability of Change:</b>	Marking of parts no & product date code will be not changed	
<b>Change Category:</b>	Assembly Change	
<b>Change Sub-Category(s):</b>	Material Change	
<b>Sites Affected:</b>		
<b>ON Semiconductor Sites</b>	<b>External Foundry/Subcon Sites</b>	
ON Semiconductor Suzhou, China	None	
<b>Description and Purpose:</b>		
<p>ON Semiconductor wishes to inform our customers of a change in mold compounds used for the devices listed in this PCN, following from the IPCN22467 series released earlier.</p> <p>This change is a result of an End of Life notification received from Samsung for several of their SDI Mold Compounds.</p> <p>At the expiration of this PCN, the impacted products will use the new mold compound or the existing mold compound until all inventories are consumed.</p>		
	<b>Before Change Description</b>	<b>After Change Description</b>
<b>Mold Compound</b> (TO3P-3 Package)	SG8200DL/SL7300HFM, Supplier: Samsung SDI	KTMC1050GFB
<b>Mold Compound</b> (TO247-3 Package)	SG8200DL, Supplier: Samsung SDI	KTMC1050GFA
<p>All other aspects of the impacted products will remain unchanged. There is no form, fit, or function change, maintaining the same product marking of all the affected products.</p>		

**Reliability Data Summary:**

QV DEVICE NAME: FGY160T65SPD-F085

RMS : U56679

PACKAGE : TP247

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 175°C for device, bias = 100% of max rated	1008 hrs	0/231
HTGB	JESD22-A108	Ta = 175°C for 1008 hours, 100% rated Vgs	1008 hrs	0/231
HTSL	JESD22-A103	Ta = 175°C for 1008 hours	1008 hrs	0/231
TC	JESD22-A104	Temp = -55°C to +150°C; for 1000 cycles	1000 cyc	0/231
IOL	MIL STD750, M 1037 AEC Q101	Ta=+25°C, delta Tj=100°C max, Ton=Toff is 3.5min	8572Cyc	0/231
H3TRB	JESD22-A101	Temp = 85°C, RH=85%, bias = 80% of rated V or 100V max	1008hrs	0/231
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/30
SD	J STD 002B	Ta=245°C 5 sec dwell	5s	0/45
PD		Per Case Outline		0/30

QV DEVICE NAME: FGA6560WDF

RMS : U60545

PACKAGE : TO3P

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 175°C for device, bias = 80% of max rated	1008 hrs	0/231
HTGB	JESD22-A108	Ta = 175°C for 1008 hours, 100% rated Vgs	1008 hrs	0/231
HTSL	JESD22-A103	Ta = 175°C for 1008 hours	1008 hrs	0/231
TC	JESD22-A104	Temp = -55°C to +150°C; for 1000 cycles	1000 cyc	0/231
H3TRB	JESD22-A101	Temp = 85C, RH=85%, bias = 80% of rated V or 100V max	1008 hrs	0/231
IOL	MIL STD750, M 1037 AEC Q101	Ta=+25°C, delta Tj=100°C max, Ton=Toff is 3.5min	8572Cyc	0/231
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/30
SD	J STD 002B	Ta=245°C 10 sec dwell	10s	0/45

All reliability result passed.

**Electrical Characteristics Summary:**

Electrical characteristics are not impacted

**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
FGH40T65SHDF-F155	FGY160T65SPD-F085
FGA60N60UFDTU	FGA6560WDF



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## Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FGA60N60UFDTU		FGA6560WDF		
FGH40T65SHDF-F155		FGY160T65SPD-F085		