



Note: For the period of 10/1/2019 through 1/10/2020, due to a data irregularity in the customer impact lists, some indirect sales customers may not have received product change, product discontinuance, or product bulletin notices as expected through email. Although these notifications were published on our public portal (<https://www.onsemi.com/PowerSolutions/pcnPub.do>), ON Semiconductor is taking the action to redistribute affected notices, with revised implementation dates conforming to external standards and ON Semiconductor's customer notification policies. This issue has been resolved. Questions related to this issue can be directed to PCN.Support@onsemi.com.

Title of Change:	Redistribution of FPCN22647XL - EMC Change for the devices which use Samsung SDI EMC-Superfet3 Easy TO247
Proposed First Ship date:	13 Jun 2020 or earlier if approved by customer
Contact Information:	Contact your local ON Semiconductor Sales Office or Yuna.Im@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:	Product with date code 2001 or newer will be assembled with a new mold compound.
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:**ON Semiconductor Sites**

ON Semiconductor Suzhou, China

External Foundry/Subcon Sites

None

Description and Purpose:

ON Semiconductor wishes to inform our customers of a change in mold compounds used for the devices listed in this PCN. This is the final product change notification (FPCN) of IPCN22647. This change is a result of an End of Life notification received from Samsung for several of their SDI Mold Compounds. Due to the discontinuance of the SDI mold compounds, ON Semiconductor will only have limited supplies of the existing material and in some cases this may not allow for the normal change notification period.

	Before Proposed Change	After Proposed Change
Mold Compound	SL-7300HFM; Supplier: Samsung SDI	KTMC1050GFA

All other aspects of the impacted products (form, fit, function) will remain unchanged.

**Reliability Data Summary:**

QV DEVICE NAME: FCH023N65S3-F155

RMS: U59668

PACKAGE: TO247

Test	Specification	Test Conditions	Interval	Results
HTRB	JESD22-A108	TA = 150°C for 1008 hours, 100% of max rated	1008 hrs	0/77
HTGB	JESD22-A108	TA = 150°C for 1008 hrs, 100% rated Vgs	1008 hrs	0/77
HTSL	JESD22-A103	TA = 150°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C; for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +130°C, RH=85% , p = 18.8 psig, bias=80% of rated BV or max 100Vdc	96 hrs	0/77
RSH	JESD22-B106	Ta=265°C 10 sec dwell	10s	0/10
SD	J STD 002	Ta=245C 5 sec dwell	5s	0/15
Tri-temp		Tri-Temp Characterization, Per 48A		0/30
TR		Thermal Resistance		0/10
PD		Per Case Outline		0/10

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
FCH023N65S3-F155	FCH023N65S3-F155
FCH023N65S3L4	FCH023N65S3-F155
FCH040N65S3-F155	FCH023N65S3-F155
FCH067N65S3-F155	FCH023N65S3-F155
FCH099N65S3-F155	FCH023N65S3-F155
FCH125N65S3R0-F155	FCH023N65S3-F155
FCH165N65S3R0-F155	FCH023N65S3-F155