



Final Product/Process Change Notification

Document #:FPCN22647XQ

Issue Date:06 Mar 2020

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 | External Foundry/Subcon Sites |
|--------------------------------|-------------------------------|
| ON Semiconductor Suzhou, China | 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 |