



# Final Product/Process Change Notification

Document #:FPCN25645XB

Issue Date:03 Jun 2024

<b>Title of Change:</b>	Qualification of Good-Ark, China as dual source for selected TO247 Field Stop SuperFET MOSFET.
<b>Proposed First Ship date:</b>	09 Sep 2024 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:MohtHezri.AbuBakar@onsemi.com">MohtHezri.AbuBakar@onsemi.com</a>
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office. 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 onsemi Sales Office or <a href="mailto:Horchner.Huo@onsemi.com">Horchner.Huo@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. onsemi 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>	The traceability of marking will be maintained by assembly plant code, lot code and date code.
<b>Change Category:</b>	Test Change, Assembly Change
<b>Change Sub-Category(s):</b>	Manufacturing Site Addition

**Sites Affected:**

**onsemi Sites**

None

**External Foundry/Subcon Sites**

Good-Ark, China

**Description and Purpose:**

This FPCN is to inform onsemi that Good-Ark, China, will be qualified as a dual source for selected TO247 Field Stop SuperFET MOSFET products, in addition to onsemi Suzhou.

Including Good-Ark, China will offer affected customers more competitive business support.

**For assembly changes:**

	From	To
<b>Assembly &amp; Final Test Sites</b>	onsemi Suzhou	Good-Ark,China, onsemi Suzhou

The traceability of marking will be maintained by assembly plant code, lot code and date code.



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## Reliability Data Summary:

**QV DEVICE NAME:** FCH023N65S3-F155

**RMS:** U88258

**PACKAGE:** TO247

Test	Specification	Condition	Interval	Result
HTGB	JESD22-A108	Tj= 150°C, 100% max rated V	1008 hrs	0/80
HTRB	JESD22-A108	Tj= 150°C, 100% max rated V	1008 hrs	0/80
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/80
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/80
UHAST	JESD22-A118	130°C, 85%RH, 18.8 psig, unbiased	96hrs	0/80
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/80
RSH	JESD22- B106	Ta=265°C, 10 sec		0/30
SD	J STD 002	Ta=245°C 5 sec	1008 hrs	0/15

## 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
FCH165N65S3R0-F155	FCH023N65S3-F155
FCH125N65S3R0-F155	FCH023N65S3-F155
FCH099N65S3-F155	FCH023N65S3-F155
FCH067N65S3-F155	FCH023N65S3-F155
FCH040N65S3-F155	FCH023N65S3-F155
FCH029N65S3-F155	FCH023N65S3-F155
FCH023N65S3-F155	FCH023N65S3-F155

**Appendix A: Changed Products**

**PCN#: FPCN25645XB**  
**Issue Date: Jun 02, 2024**

DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FCH165N65S3R0-F155		FCH023N65S3-F155	#NONE	
FCH125N65S3R0-F155		FCH023N65S3-F155	#NONE	
FCH067N65S3-F155		FCH023N65S3-F155	#NONE	
FCH040N65S3-F155		FCH023N65S3-F155	#NONE	
FCH029N65S3-F155		FCH023N65S3-F155	#NONE	
FCH023N65S3-F155		FCH023N65S3-F155	#NONE	
FCH099N65S3-F155		FCH023N65S3-F155	#NONE	