



Final Product/Process Change Notification

Document #:FPCN25645XA

Issue Date:15 Apr 2024

Title of Change:	Qualification of Good-Ark, China as dual source for selected TO247 Field Stop SuperFET MOSFET.	
Proposed First Ship date:	12 Jul 2024 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or MohdHezri.AbuBakar@onsemi.com	
PCN Samples Contact:	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.	
Additional Reliability Data:	Contact your local onsemi Sales Office or Horchner.Huo@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. 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 PCN.Support@onsemi.com	
Marking of Parts/ Traceability of Change:	The traceability of marking will be maintained by assembly plant code, lot code and date code.	
Change Category:	Assembly Change, Test Change	
Change Sub-Category(s):	Manufacturing Site Addition	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
None	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
Assembly & Final Test Sites	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:

V DEVICE NAME: FCH023N65S3-F155 (QV3)

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
NTHL082N65S3F	FCH023N65S3-F155
NTHL067N65S3H	FCH023N65S3-F155
NTHL065N65S3HF	FCH023N65S3-F155
NTHL065N65S3F	FCH023N65S3-F155
NTHL050N65S3HF	FCH023N65S3-F155
NTHL040N65S3HF	FCH023N65S3-F155
NTHL040N65S3F	FCH023N65S3-F155
NTHL033N65S3HF	FCH023N65S3-F155
NTHL027N65S3HF	FCH023N65S3-F155
NTHL019N65S3H	FCH023N65S3-F155
NTH027N65S3F-F155	FCH023N65S3-F155



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FCH023N65S3L4	FCH023N65S3-F155
FCH041N65EFL4	FCH023N65S3-F155
FCH085N80-F155	FCH023N65S3-F155
FCH110N65F-F155	FCH023N65S3-F155
FCH190N65F-F155	FCH023N65S3-F155
NTH4L027N65S3F	FCH023N65S3-F155
NTH4L040N65S3F	FCH023N65S3-F155
NTH4L067N65S3H	FCH023N65S3-F155
NTHL082N65S3HF	FCH023N65S3-F155
NTHL190N65S3HF	FCH023N65S3-F155
NTHL125N65S3H	FCH023N65S3-F155
NTHL110N65S3F	FCH023N65S3-F155
NTHL095N65S3HF	FCH023N65S3-F155
NTHL095N65S3H	FCH023N65S3-F155