



Final Product/Process Change Notification

Document #:FPCN25645X

Issue Date:08 Aug 2024

Title of Change:	Qualification of Good-Ark, China as dual source for selected TO247 Field Stop IGBT.	
Proposed First Ship date:	15 Nov 2024 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Hoang.Nguyen@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 Harper.Pan@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 IGBT 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:

QV DEVICE NAME: FGHL75T65LQDTL4 (QV1)

RMS: U88588

PACKAGE: TO247

Test	Specification	Condition	Interval	Results
HTGB	JESD22-A108	Tj= 175°C, 100% max rated V	1008 hrs	0/80
HTRB	JESD22-A108	Tj= 175°C, 100% max rated V	1008 hrs	0/80
HTSL	JESD22-A103	Ta= 175°C	1008 hrs	0/80
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/80
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/80
H3TRB	JESD22-A101	85°C, 85% RH, 80%bias	1008 hrs	0/80
RSH	JESD22- B106	Ta=265°C, 10 sec		0/30
UHAST	JESD22-A118	130°C, 85%RH, 18.8 psig, unbiased	96hrs	0/80
SD	J STD 002	Ta=245°C 5 sec	1008 hrs	0/15

QV DEVICE NAME: FGH75T65SHD-F155 (QV2)

RMS: U88592

PACKAGE: TO247

Test	Specification	Condition	Interval	Result
HTGB	JESD22-A108	Tj= 175°C, 100% max rated V	1008 hrs	0/80
HTRB	JESD22-A108	Tj= 175°C, 100% max rated V	1008 hrs	0/80
HTSL	JESD22-A103	Ta= 175°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
FGH40T120SMD-F155	FGH75T65SHD-F155



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FGHL75T65MQDT	FGH75T65SHD-F155
FGHL40T65MQDT	FGH75T65SHD-F155
FGHL75T65LQDT	FGH75T65SHD-F155
FGH4L40T120LQD	FGHL75T65LQDTL4
FGH4L50T65SQD	FGHL75T65LQDTL4
FGH40T120SQDNL4	FGHL75T65LQDTL4
FGH75T65SHDTL4	FGHL75T65LQDTL4
FGH75T65SQDNL4	FGHL75T65LQDTL4
FGH75T65SQDTL4	FGHL75T65LQDTL4
FGHL50T65LQDTL4	FGHL75T65LQDTL4
FGHL50T65MQDTL4	FGHL75T65LQDTL4
FGHL75T65LQDTL4	FGHL75T65LQDTL4
FGHL75T65MQDTL4	FGHL75T65LQDTL4
FGHL50T65SQ	FGH75T65SHD-F155
FGH40T65SHD-F155	FGH75T65SHD-F155
FGH40T65SHDF-F155	FGH75T65SHD-F155
FGH40T65SQD-F155	FGH75T65SHD-F155
FGH60T65SHD-F155	FGH75T65SHD-F155
FGH75T65SHD-F155	FGH75T65SHD-F155
FGH75T65SHDT-F155	FGH75T65SHD-F155
FGHL40T65LQDT	FGH75T65SHD-F155
FGHL40T65MQD	FGH75T65SHD-F155
FGHL50T65LQDT	FGH75T65SHD-F155
FGHL50T65MQD	FGH75T65SHD-F155
FGHL50T65MQDT	FGH75T65SHD-F155
FGHL75T65MQD	FGH75T65SHD-F155
FGHL50T65SQDT	FGH75T65SHD-F155