



Final Product/Process Change Notification

Document #:FPCN25107X

Issue Date:03 Mar 2023

Title of Change:	Qualification of Shantou Huashan(SHEDCL) China as dual source for TO247 FS2 & FSIII Tech discrete IGBT
Proposed First Ship date:	08 Jun 2023 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Charles.Jiang@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, Material Change

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
None	SHANTOU HUASHAN Electronic Devices Co., Ltd., China

Description and Purpose:

This FPCN is to inform onsemi has qualified Shantou Huashan (SHEDCL),China as an additional assembly and test site for selected TO247 FS2,FSIII discrete IGBT products, other than onsemi Suzhou. The addition of Shantou Huashan (SHEDCL),China will enable a more competitive business supports to the affected customers.

	Before Change Description	After Change Description
Die Attach	PB92.5SN5AG2.5 (onsemi Suzhou)	PB93.5SN5AG1.5 (Shantou Huashan (SHEDCL),China), PB92.5SN5AG2.5 (onsemi Suzhou)
Assembly & Final Test Sites	onsemi Suzhou (onsemi Suzhou)	onsemi Suzhou (onsemi Suzhou), Shantou Huashan (SHEDCL),China

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

Reliability Data Summary:

QV DEVICE NAME: FGY75T120SQDN

RMS: U88353

PACKAGE: TO-247

Test	Specification	Condition	Interval	Results
H3TRB	JESD22-A101	Temp = 85C, RH=85%, bias = 100V max	1008Hr	0/240
HTGB	JESD22-A108	Tj = 175C for 1008 hrs, Vgss Bias = 20V	1008Hr	0/240
HTRB	JESD22-A108	Tj = 175C, bias = 80% of max rated =960V	1008Hr	0/240
HTSL	JESD22-A103	Ta =175C for 1008 hrs	1008Hr	0/240
RSH	JESD22-B106	Ta=268C 10 sec dwell B106	10s	0/90
TC	JESD22-A104	Temp = -55°C to +150°C	1000Cyc	0/240
UHAST	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96Hr	0/240
SD	J STD 002	Ta=245C 5 sec dwell	5s	0/45

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
FGY100T65SCDT	FGY75T120SQDN
FGY60T120SQDN	FGY75T120SQDN
FGY75T120SQDN	FGY75T120SQDN
FGY40T120SMD	FGY75T120SQDN

Appendix A: Changed Products

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DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FGY60T120SQDN		FGY75T120SQDN		
FGY75T120SQDN		FGY75T120SQDN		
FGY40T120SMD		FGY75T120SQDN		