



Initial Product/Process Change Notification

Document #: IPCN25107X

Issue Date: 15 Dec 2022

Title of Change:	Qualification of Shantou Huashan(SHEDCL) China as dual source for TO247 FS2 & FSIII Tech discrete IGBT									
Proposed First Ship date:	30 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.									
Type of Notification:	This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, 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:	Test Change, Assembly Change									
Change Sub-Category(s):	Material Change, Manufacturing Site Addition									
Sites Affected:										
onsemi Sites	External Foundry/Subcon Sites									
None	SHANTOU HUASHAN Electronic Devices Co., Ltd., China									
Description and Purpose:										
<p>This IPCN is to inform onsemi will qualify 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.</p> <p>There are no changes in product electrical performances and specifications.</p>										
	<table border="1"><thead><tr><th></th><th>Before Change Description</th><th>After Change Description</th></tr></thead><tbody><tr><td>Die Attach</td><td>PB92.5SN5AG2.5 (onsemi Suzhou)</td><td>PB93.5SN5AG1.5 (Shantou Huashan (SHEDCL),China), PB92.5SN5AG2.5 (onsemi Suzhou)</td></tr><tr><td>Assembly & Final Test Sites</td><td>onsemi Suzhou (onsemi Suzhou)</td><td>onsemi Suzhou (onsemi Suzhou), Shantou Huashan (SHEDCL),China</td></tr></tbody></table>		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
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Qualification Plan:

QV DEVICE NAME: FGY75T120SQDN

RMS: TBD

PACKAGE: TO-247

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Ta=175°C, 100% max rated V	1008 hrs
HTGB	JESD22-A108	Ta=175°C, 100% max rated Vgss	1008 hrs
HTSL	JESD22-A103	Ta=175°C	1008 hrs
IOL	MIL-STD-750 (M1037)	Ta=+25°C, delta Tj=100°C	6000 cyc
	AEC-Q101	On/off = 5 min	
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc
H3TRB	JESD22 A101	Ta= 85°C, 85% RH, bias, 80% max V rating	1008 hrs
uHAST	JESD22-A118	Ta= 130°C, 85% RH, 18.8psig, unbiased	96 hrs
RSH	JESD22- B106	Ta = 268°C, 10 sec	
SD	J STD 002	Ta = 245°C, 5 sec	
PD	JESD22-B100B	Case outline	

Estimated date for qualification completion: 7 March 2023

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
FGY60T120SQDN	FGY75T120SQDN
FGY75T120SQDN	FGY75T120SQDN
FGY40T120SMD	FGY75T120SQDN