



# Final Product/Process Change Notification

Document #:FPCN24516XA

Issue Date:20 Jun 2022

<b>Title of Change:</b>	Qualification of Shantou Huashan (SHEDCL) China as dual source for TO247 discrete Diode.		
<b>Proposed First Ship date:</b>	03 Oct 2022 or earlier if approved by customer		
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Jeanie.Wang@onsemi.com">Jeanie.Wang@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:Lalan.Ortega@onsemi.com">Lalan.Ortega@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 , date code and lot code		
<b>Change Category:</b>	Test Change, Assembly Change		
<b>Change Sub-Category(s):</b>	Manufacturing Site Addition		
<b>Sites Affected:</b>			
<b>onsemi Sites</b>		<b>External Foundry/Subcon Sites</b>	
None		SHANTOU HUASHAN Electronic Devices Co., Ltd., China	
<b>Description and Purpose:</b>			
There are no changes in product electrical performances and specifications.			
	<b>Before Change Description</b>	<b>After Change Description</b>	
Assembly Site	onsemi Suzhou (ONSZ)	onsemi Suzhou (ONSZ)	Shantou Huashan (SHEDCL)
Test Site	onsemi Suzhou (ONSZ)	onsemi Suzhou (ONSZ)	Shantou Huashan (SHEDCL)
Die Attach ( for all devices of the list)	Use Pb base solder, DA SLDR WIRE PB92.5SN5AG2.5	Use Pb base solder, DA SLDR WIRE PB92.5SN5AG2.5	Change to Pb-free solder, DA SLDR WIRE SN80AG20
Mold Compound (Except FCH76N60NF)	KCC KTMC-1050GFA 48MM*86G	KCC KTMC-1050GFA 48MM*86G	KCC KTMC-1050GFA 48MM*86G
Mold Compound (Only for FCH76N60NF)	SU EME 6600CS 48MMX88G	SU EME 6600CS 48MMX88G	KCC KTMC-1050GFA 48MM*86G
The traceability of marking will be maintained by assembly plant code, date code and lot code.			

**Reliability Data Summary:**

**QV DEVICE NAME:** FDH055N15A

**RMS:** U82658, O83491

**PACKAGE:** TO-247

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 100% max rated V = 150V	1008 hrs	0 / 231
HTGB	JESD22-A108	Ta=150°C, 100% max rated V = 20V	1008 hrs	0 / 231
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0 / 231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 5 min	6000 cyc	0 / 120
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0 / 231
H3TRB	JESD22-A-101	Ta = 85°C/ 85% RH, 100V	1008 hrs	0 / 231
uHAST	JESD22-A118	Ta = 130°C, 85% RH, 18.8psig, unbiased	1008 hrs	0 / 231
RSH	JESD22- B106	Ta = 265C, 10 sec		0 / 90
SD	J-STD-002	Ta = 245C, 5 sec		0/ 45
PD	JESD22-B100	Physical Dimension, Case outline 340CL		0 / 30
LI	JESD22-B105	Lead fatigue test	0 hr	0 / 30
SAT	J-STD-035	Scanning Acoustic Microscopy/Topography	0 hr	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
HUF75652G3	FDH055N15A
FDH055N15A	FDH055N15A

**Appendix A: Changed Products**

**PCN#: FPCN24516XA**  
**Issue Date: Jun 20, 2022**

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
HUF75652G3		FDH055N15A	NA	
FDH055N15A		FDH055N15A	NA	