



# Final Product/Process Change Notification

Document #:FPCN24516XB

Issue Date:05 Aug 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>	12 Nov 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>	Assembly Change, Test 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
The traceability of marking will be maintained by assembly plant code, date code and lot code.			

**Reliability Data Summary:**

**QV DEVICE NAME: FCH060N80-F155**

**RMS: U83939, O84227**

**PACKAGE: TO-247**

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 100% max rated V	1008 hrs	0 / 231
HTGB	JESD22-A108	Ta=150°C, 100% max rated Vgss	1008 hrs	0 / 231
HTSL	JESD22-A103	Ta=150°C	1008 hrs	0 / 231
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0 / 231
HAST	JESD22-A110	Ta= 130°C, 85% RH, 18.8psig, bias	96 hrs	0 / 231
uHAST	JESD22-A118	Ta= 130°C, 85% RH, 18.8psig, unbiased	96 hrs	0 / 231
RSH	JESD22- B106	Ta = 265C, 10 sec		0 / 90
SD	JSTD002	Ta = 245C, 5 sec		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
FCH165N60E	FCH060N80-F155
FCH150N65F-F155	FCH060N80-F155
FCH104N60F	FCH060N80-F155
FCH077N65F-F155	FCH060N80-F155
FCH072N60F	FCH060N80-F155
FCH041N65EF-F155	FCH060N80-F155
FCH070N60E	FCH060N80-F155
FCH060N80-F155	FCH060N80-F155

**Appendix A: Changed Products**

**PCN#: FPCN24516XB**  
**Issue Date: Aug 05, 2022**

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FCH165N60E		FCH060N80-F155		
FCH104N60F		FCH060N80-F155		
FCH077N65F-F155		FCH060N80-F155		
FCH072N60F		FCH060N80-F155		
FCH041N65EF-F155		FCH060N80-F155		
FCH070N60E		FCH060N80-F155		
FCH060N80-F155		FCH060N80-F155		
FCH150N65F-F155		FCH060N80-F155		