



Final Product/Process Change Notification

Document #:FPCN24516X

Issue Date:17 Jun 2022

Title of Change:	Qualification of Shantou Huashan (SHEDCL) China as dual source for TO247 discrete Diode.	
Proposed First Ship date:	03 Oct 2022 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 Lalan.Ortega@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	SHANTOU HUASHAN Electronic Devices Co., Ltd., China	
Description and Purpose:		
<p>This FPCN is to inform customers that onsemi has qualified Shantou Huashan (SHEDCL),China as additional assembly and test sites for selected TO247 discrete Diode products. 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>		
	Before Change Description	After Change Description
Die Attach	PB92.5SN5AG2.5 (onsemi Suzhou)	SN80AG20 (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
<p>The traceability of marking will be maintained by assembly plant code, lot code and date code.</p>		



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Reliability Data Summary:

QV DEVICE NAME: **RHRG75120**

RMS: **U82322, O82504**

PACKAGE: **TO-247**

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 100% max rated V, 1200V	1008 hrs	0 / 231
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0 / 231
IOL	MIL-STD-750	Ta=+25°C, delta Tj=100°C	6000 cyc	0 / 120
	(M1037)	On/off = 5 min		
	AEC-Q101			
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0 / 231
H3TRB	JESD22-A-101	Ta = 85°C/ 85% RH	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
RHRG30120	RHRG75120
RHRG5060	RHRG75120
FFH60UP60S	RHRG75120
FFH30S60STU	RHRG75120
ISL9R3060G2	RHRG75120
RURG8060	RHRG75120
RHRG75120	RHRG75120

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
RHRG30120		RHRG75120	NA	
FFH60UP60S		RHRG75120	NA	
FFH30S60STU		RHRG75120	NA	
ISL9R3060G2		RHRG75120	NA	
RURG8060		RHRG75120	NA	
RHRG75120		RHRG75120	NA	
RHRG5060		RHRG75120	NA	