ON Semiconductor®



Title of Change:	Assembly and test manufacturing for NCV8170 SOT563 family transfer to Leshan Phoenix Semiconductor, China.			
Proposed Changed Material First Ship Date:	10 Jan 2021 or earlier if approved by customer			
Current Material Last Order Date:	30 Jun 2020 Orders received after the Current Material Last Order Date expiration are to be considered orders for new changed material as described in this PCN. Orders for current (unchange material after this date will be per mutual agreement and current material inven availability.			
Current Material Last Delivery Date:	09 Jan 2021 The Current Material Last Delivery Date may be subject to change based on build and depletio of the current (unchanged) material inventory			
Product Category:	Active components – Integrated circuits			
Contact information:	Contact your local ON Semiconductor Sales Office or < <u>Jan.Gryzbon@onsemi.com</u> >			
PCN Samples Contact:	Contact your local ON Semiconductor Sales Office to place sample order or <pcn.samples@onsemi.com>. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special custom packing/label requirements.</pcn.samples@onsemi.com>			
Sample Availability Date:	28 Feb 2020			
PPAP Availability Date:	10 Jan 2020			
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or < <u>Tomas.Vajter@onsemi.com</u> >			
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 12 months prior to implementation of the change or earlier upon customer approval. ON Semiconductor will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com.			
Change Category				
Category	Type of Change			
Test Flow	Move of all or part of electrical wafer test and/or final test to a different location/site/subcontractor			
Equipment	Production from a new equipment/tool which uses the same basic technology (replacement equipment or extension of existing equipment pool) without change of process.			
Process - Assembly	Move of all or part of assembly to a different location/site/subcontractor., Change of mold compound, Change of product marking			

Description and Purpose:

This FPCN announces that NCV8170 family in SOT563 will be transferred to Leshan Phoenix Semiconductor, China.

Upon the effectivity of the pending FPCN, assembly and test of these devices will be transferred to Leshan Phoenix Semiconductor, China. This change will apply for voltage options which are released after this change

	Before Change Description	After Change Description
Mold Compound	EME-G700LS	Hysol GR640HV-L1 M7A
Assembly Site	ON Semiconductor Seremban, Malaysia	Leshan Phoenix Semiconductor, China
Test Site	ON Semiconductor Seremban, Malaysia	Leshan Phoenix Semiconductor, China



		From			То		
Product marking	change	M	= Month Code, rotate=0°	5	M = M	Month Code,	rotate=270°
Product assembled in product marking as a r Seremban X X M Pbfree Microdot			the trace character of '	M' (rotated	270 degrees) in the tr	ace. There a	re no other changes to the
Reason / Motivatio	n for Change:	Source	e/Supply/Capacity Chan	ges			
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:			The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by ON Semiconductor in relation to the PCN, associated risks are verified and excluded. No anticipated impacts.				
ON Semiconductor Sites				External Foundry/Subcon Sites			
Leshan Phoenix Semiconductor, China				None			
ON Semiconductor Seremban, Malaysia							
Marking of Parts/ T Change: Reliability Data Sun QV device name : NCV RMS : 555	nmary: /8170AXV300T20 65		fected products will be i	identified w	ith date code.		
Package : SOT Test	Specification	-	Condit	ion	Int	erval	Results
HTOL	JA108	•	Ta= 25			08 hrs	0/252
HTSL	J103		Ta= 25°C an	-		08 hrs	0/252
PC (MSL1)	J-Std-020		MSL 1 @ 1				0/837
SAT	JA113						Without delamination
PC (MSL1) -TC	JA104	Test pre- and MSL 1 @			50	Осус	0/269
BS	AEC-Q100-00					Jocyc	Cpk>1.67
BPS	M883 Method 201		3gm Pull Force			Осус	Cpk>1.67
BPS	M883 Method 201	3gm Pull		Force Min After TC		Осус	Cpk>1.67
PC (MSL1) - AC	JA102			4 assy lots Ta = 25°C		6 hrs	0/252
PC(MSL1) - HAST	JA10 JA110	4 assy Ta = 25°C, 85°			9	6 hrs	0/251
RSH	JESD22 B106	Test @ Roo		m & Hot			0/90
	ON DataSheet Cpk > Test @						

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NOTE: AEC-1pager is attached.

To view attachments:

- 1. Download pdf copy of the PCN to your computer
- 2. Open the downloaded pdf copy of the PCN
- 3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field
- 4. Then click on the attached file/s

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**.

Current Part Number	New Part Number	Qualification Vehicle
NCV8170AXV120T2G	NA	NCV8170AXV300T2G
NCV8170BXV120T2G	NA	NCV8170AXV300T2G
NCV8170AXV150T2G	NA	NCV8170AXV300T2G
NCV8170BXV150T2G	NA	NCV8170AXV300T2G
NCV8170AXV180T2G	NA	NCV8170AXV300T2G
NCV8170BXV180T2G	NA	NCV8170AXV300T2G
NCV8170AXV250T2G	NA	NCV8170AXV300T2G
NCV8170BXV250T2G	NA	NCV8170AXV300T2G
NCV8170AXV280T2G	NA	NCV8170AXV300T2G
NCV8170BXV280T2G	NA	NCV8170AXV300T2G
NCV8170AXV300T2G	NA	NCV8170AXV300T2G
NCV8170BXV300T2G	NA	NCV8170AXV300T2G
NCV8170AXV310T2G	NA	NCV8170AXV300T2G
NCV8170BXV310T2G	NA	NCV8170AXV300T2G
NCV8170AXV330T2G	NA	NCV8170AXV300T2G
NCV8170BXV330T2G	NA	NCV8170AXV300T2G
NCV8170AXV360T2G	NA	NCV8170AXV300T2G
NCV8170BXV360T2G	NA	NCV8170AXV300T2G

Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCV8170AXV330T2G		NCV8170AXV300T2G	NA	
NCV8170AXV310T2G		NCV8170AXV300T2G	NA	
NCV8170AXV300T2G		NCV8170AXV300T2G	NA	
NCV8170AXV250T2G		NCV8170AXV300T2G	NA	
NCV8170AXV180T2G		NCV8170AXV300T2G	NA	