



Final Product/Process Change Notification

Document #:FPCN26299X

Issue Date:22 Jul 2026

Title of Change:	Qualification of copper wire for NCP170 SOT563 package									
Proposed First Ship date:	29 Oct 2026 or earlier if approved by customer									
Contact Information:	Contact your local onsemi Sales Office									
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									
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:	No change in markings. Change can be traced via the lot trace code.									
Change Category:	Assembly Change									
Change Sub-Category(s):	Manufacturing Process Change									
Sites Affected:										
onsemi Sites		External Foundry/Subcon Sites								
onsemi Leshan, China		None								
Description and Purpose:										
onsemi wishes to inform customers of its plan to implement a bond wire material change for selected NCP170 device family in SOT563 package. The change involves transitioning from gold bond wire to copper bond wire to support manufacturing process optimization at the Leshan, China site.										
<table><tr><th></th><th>From</th><th>To</th></tr><tr><td>Bond Wire</td><td>0.8 mils Au wire</td><td>0.8 mils Cu wire</td></tr></table>						From	To	Bond Wire	0.8 mils Au wire	0.8 mils Cu wire
	From	To								
Bond Wire	0.8 mils Au wire	0.8 mils Cu wire								
There is no product marking change as a result of this change.										
Reliability Data Summary:										
QV DEVICE NAME: NCV8170BXV360T2G										
RMS: S107727										
PACKAGE: SOT-563										
Test	Specification	Condition	Interval	Result						
HTOL	JESD22-A108	TA=125C, bias at 1.2X Nominal	2016 hours	0/125 (PASS)						
HTSL	JESD22-A103	Ta = 150C	2016 hours	0/84 (PASS)						
PC	J-STD-020 JESD-A113	IR reflow @ 260 °C								
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, biased	192 hours	0/119 (PASS)						
TC+PC	JESD22-A104	Temp = -55°C to +150°C	1000 cycles	0/84 (PASS)						
uHAST+PC	JESD22-A118	Temp = 130C, RH=85%, unbiased	96 hours	0/84 (PASS)						



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Electrical Characteristics Summary:

Electrical change summary is available upon request.

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
NCP170AXV330T2G	#NONE	NCV8170BXV360T2G
NCP170AXV360T2G	#NONE	NCV8170BXV360T2G
NCP170BXV120T2G	#NONE	NCV8170BXV360T2G
NCP170BXV135T2G	#NONE	NCV8170BXV360T2G
NCP170BXV150T2G	#NONE	NCV8170BXV360T2G
NCP170BXV250T2G	#NONE	NCV8170BXV360T2G
NCP170BXV300T2G	#NONE	NCV8170BXV360T2G
NCP170AXV300T2G	#NONE	NCV8170BXV360T2G
NCP170AXV210T2G	#NONE	NCV8170BXV360T2G
NCP170AXV190T2G	#NONE	NCV8170BXV360T2G
NCP170AXV180T2G	#NONE	NCV8170BXV360T2G
NCP170AXV135T2G	#NONE	NCV8170BXV360T2G