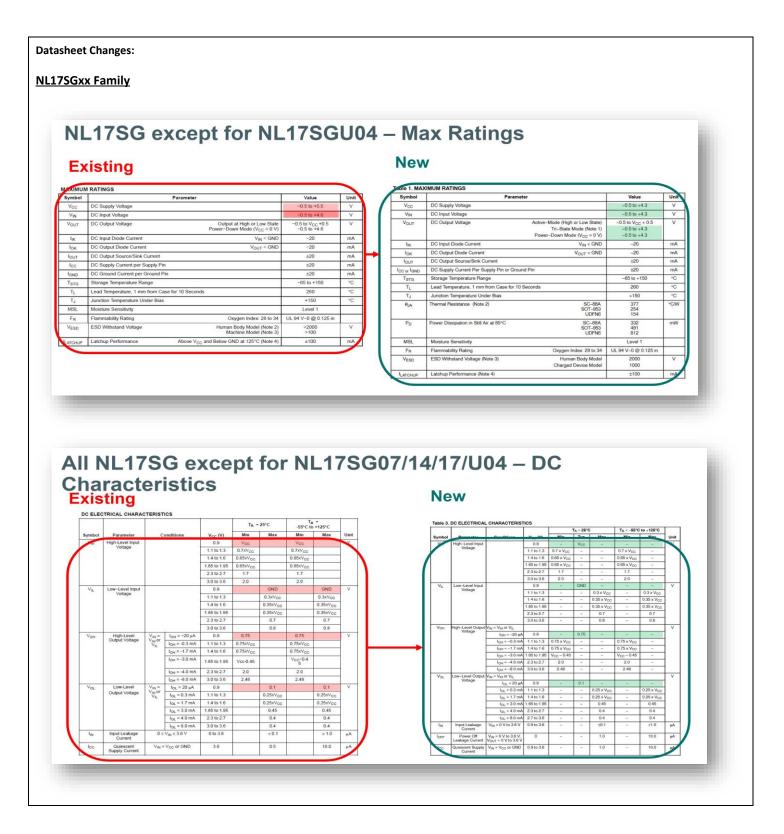


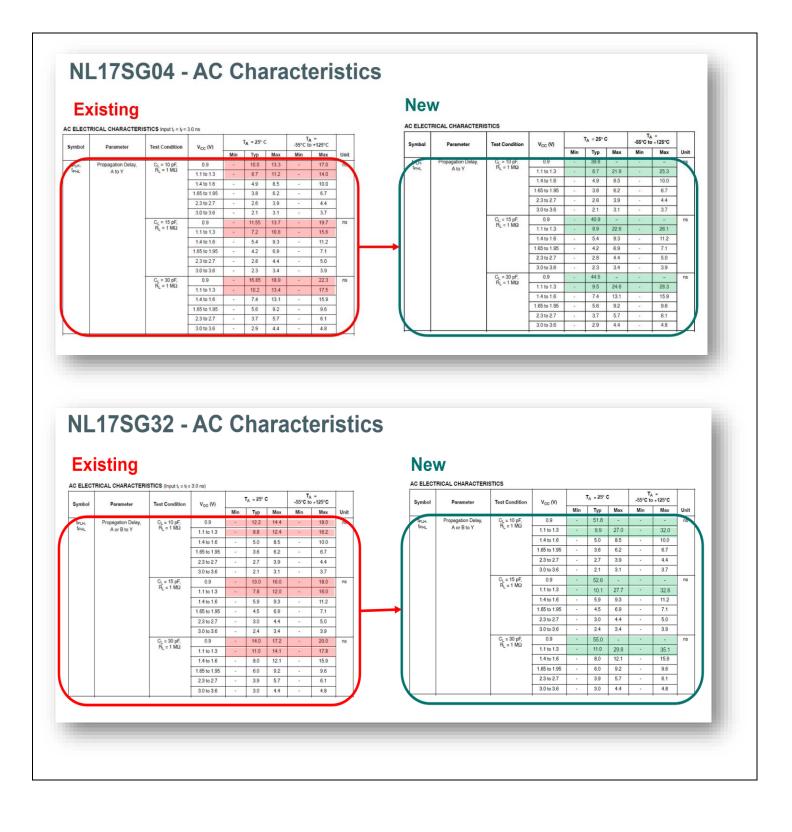
Final Product/Process Change Notification Document #:FPCN25572X23

Issue Date: 06 Feb 2023

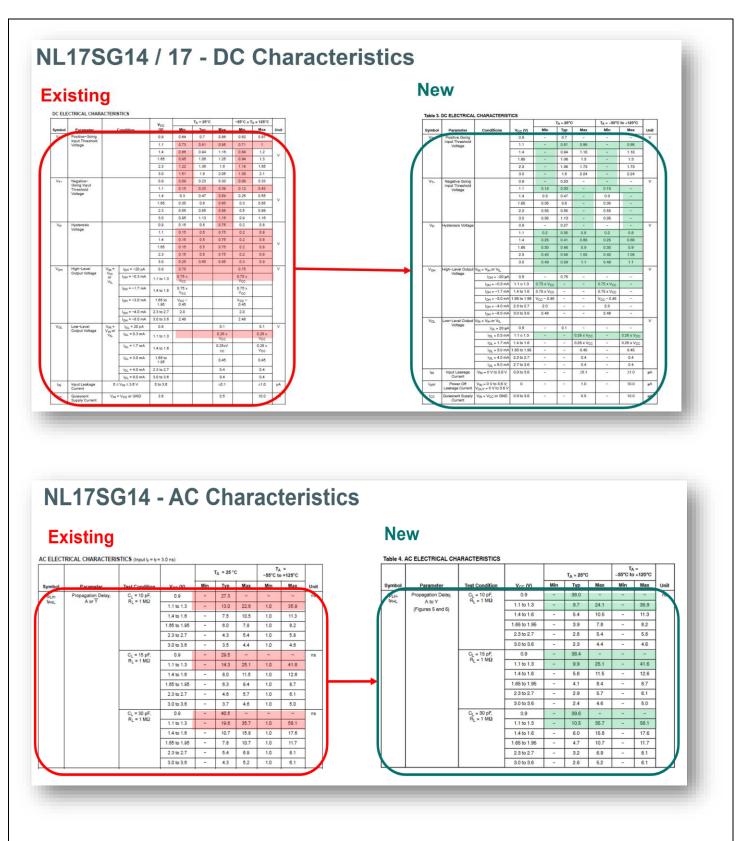
Wafer Diameter	6 inch		8 inch	
Fab Site	Tower		Vanguard	
		From	То	
Description and Purpose: With reference to FPCN25572X, this FPCN pr	esents the updated reliabi	lity results for 3V Minigates S	ОТ953.	
onsemi Leshan, China		Vanguard International Semiconductor, Taiwan		
onsemi Sites		External Foundry/Subcon Sites		
Sites Affected:				
Change Sub-Category(s):	Manufacturing Site Transfer, Datasheet/Product Doc change			
Change Category:	Wafer Fab Change, Assembly Change, Test Change			
Marking of Parts/ Traceability of Change:	Custom source on label will show TW instead of US to indicate new die source from Vanguard. Changed material may be identified by plant code or lot code too.			
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 <u>PCN.Support@onsemi.com</u>			
Additional Reliability Data:	Contact your local onsemi Sales Office or <u>ChangKit.Mok@onsemi.com</u>			
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.			
Contact Information:	Contact your local onsemi Sales Office or logic.fpcn@onsemi.com			
Proposed First Ship date:	13 May 2024 or earlier if approved by customer			
Title of Change:	Update to FPCN25572X – To include the reliability data of 3V Minigates in SOT953 for the Qualification of Vanguard Fab and Assembly related changes for Logic part.			

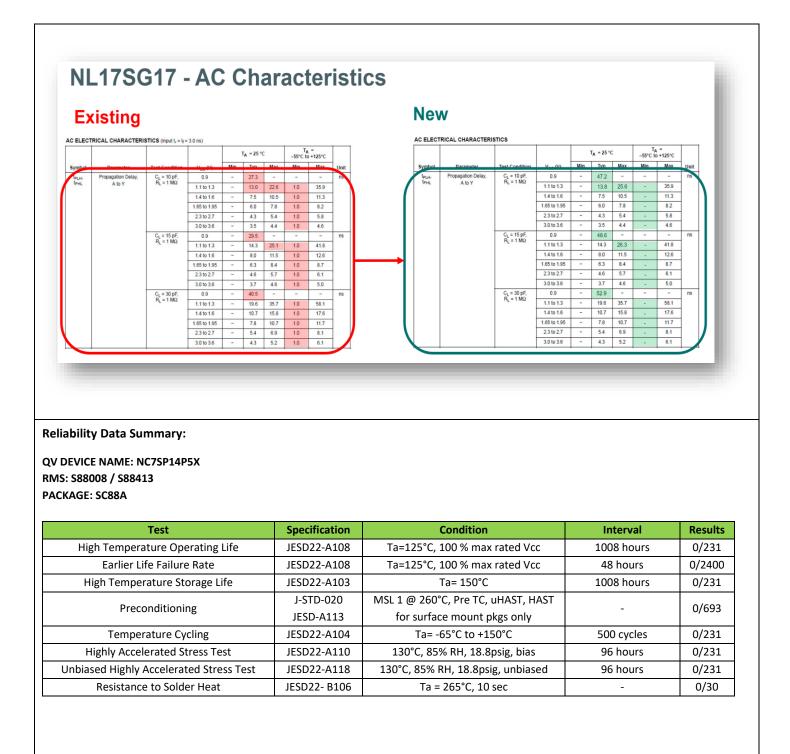
Bond Wire	Au	Cu	
Mold Compound	Showa Denko GE200F or Hysol GR640 HV	Hysol GR640 HV	











QV DEVICE NAME: NL17SG14P5T5G RMS: S88110 PACKAGE: SOT953

Test	Specification	Condition	Interval	Results
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hours	0/77
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hours	0/77
Preconditioning	J-STD-020	MSL 1 @ 260°C, Pre TC, uHAST, HAST		0/231
Preconditioning	JESD-A113	for surface mount pkgs only	-	0/251
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	500 cycles	0/77
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hours	0/77
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours	0/77
Resistance to Solder Heat	JESD22- B106	Ta = 265°C, 10 sec	-	0/10

Electrical Characteristics Summary:

Electrical characteristics 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**.

Part Number	New Part Number	Qualification Vehicle		
NL17SG32P5T5G-L22735	NL17SG32P5T5G	NC7SP14P5X, NL17SG14P5T5G		
NL17SG32P5T5G	#NONE	NC7SP14P5X, NL17SG14P5T5G		
NL17SG17P5T5G	#NONE	NC7SP14P5X, NL17SG14P5T5G		
NL17SG14P5T5G	#NONE	NC7SP14P5X, NL17SG14P5T5G		
NL17SG04P5T5G	#NONE	NC7SP14P5X, NL17SG14P5T5G		