ON Semiconductor

Final Product/Process Change Notification

Document # : FPCN21130Z
Issue Date: 7 December 2015

Title of Change:	NCV7342-3 Timing Characteristics change (Datasheet update – Rev3)
Proposed first ship date:	7 December 2016 *or earlier after customer approval*
Contact information:	Contact your local ON Semiconductor Sales Office or Roman Buzas <roman.buzas@onsemi.com>.
Samples:	Contact your local ON Semiconductor Sales Office
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or Roman Buzas <roman.buzas@onsemi.com>.
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. ON Semiconductor will consider this change approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice. To do so, contact <PCN.Support@onsemi.com>.
Change Part Identification:	Affected products will be identified with date code.
Change category:	☐ Wafer Fab Change ☐ Assembly Change ☐ Test Change ☒ Other _____

Change Sub-Category(s):

☐ Manufacturing Site Change/Addition
☐ Manufacturing Process Change
☐ Material Change
☐ Product specific change
☒ Datasheet/Product Doc change
☐ Shipping/Packaging/Marking
☐ Other: _____

Sites Affected:

☐ All site(s) ☒ not applicable ☐ ON Semiconductor site(s) : ☐ External Foundry/Subcon site(s)

Description and Purpose:

Part number NCV7342MW3R2G added (NCV7342-3 DFN8 package)

Package related parameters

- Moisture Sensitivity Level (MSL) added (SOIC-8 and DFN8 package)
- Lead Soldering temperature added (SOIC-8 and DFN8 package)

Electrical Characteristics – Timing characteristics updated

- Delay Standby mode to Normal mode Max value changed to 90 µs ($t_{d1(stb-nm)}$)
- TxD dominant time for timeout Max value changed to 5 ms ($t_{dom(TxD)}$)
- Bus dominant timeout Max value changed to 5 ms ($t_{dom(bus)}$)

Reliability Data Summary:

There is no change in reliability data. Characterization data is available upon request.

Electrical Characteristic Summary:

Delay Standby mode to Normal mode Max value change

Original Datasheet

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
TIMING CHARACTERISTICS (See Figure 7 and 8)						
$t_{d(stb-nm)}$	Delay standby mode to normal mode				47	µs

Updated Datasheet

Symbol	Parameter	Condition	Min	Typ	Max	Unit
$t_{d(stb-nm)}$	Delay standby mode to normal mode	NCV7342-0 version			47	µs
$t_{d1(stb-nm)}$	Delay standby mode to normal mode	NCV7342-3 version			90	µs

TxD dominant time for timeout and Bus dominant timeout Max value changed

Original Datasheet

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
TIMING CHARACTERISTICS (See Figure 7 and 8)						
$t_{dom(TxD)}$	TxD dominant time for time out	V_{TxD} = 0 V	1.3		3	ms
$t_{dom(bus)}$	Bus dominant time out	Standby mode	1.3		3	ms

Updated Datasheet

$t_{dom(TxD)}$	TxD dominant time for time out	V_{TxD} = 0 V	1.3		5	ms
$t_{dom(bus)}$	Bus dominant time out	Standby mode	1.3		5	ms

List of Affected Standard Parts:

Part Number	Qualification Vehicle
NCV7342D13R2G	N/A
NCV7342MW3R2G	N/A