



<b>Title of Change:</b>	NCP1339 Datasheet Update
<b>Proposed first ship date:</b>	9 March 2016
<b>Contact information:</b>	Contact your local ON Semiconductor Sales Office or <Marquita.Jones@onsemi.com >
<b>Samples:</b>	Contact your local ON Semiconductor Sales Office
<b>Additional Reliability Data:</b>	Contact your local ON Semiconductor Sales Office or <Marquita.Jones@onsemi.com >
<b>Type of notification:</b>	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. ON Semiconductor 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>.

**Change category:**     Wafer Fab Change     Assembly Change     Test Change     Other Datasheet Change

**Change Sub-Category(s):**

Manufacturing Site Change/Addition     Material Change     Datasheet/Product Doc change

Manufacturing Process Change     Product specific change     Shipping/Packaging/Marking

Other: \_\_\_\_\_

**Sites Affected:**

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

**Description and Purpose:**

Based on the results of additional characterization data, we are widening the limits for the following parameters: Vcc (hys), ICC1, Ijit, Vfault (OVP), and (VCCOVP). This specification change is not the result of a design or manufacturing process change. The new specification reflects a guard banded limit to the new comprehensive distribution, enabling ON Semiconductor to maintain its high quality standards.

**Electrical Characteristic Summary:**

**Current Datasheet**  
**STARTUP AND SUPPLY CIRCUITS**

Supply Voltage	dV/dt = 0.1 V/ms					V
Startup Threshold	V <sub>CC</sub> increasing	V <sub>CC(on)</sub>	14.0	15.0	16.0	
Minimum Operating Voltage	V <sub>CC</sub> decreasing	V <sub>CC(off)</sub>	8.0	9.0	10.0	
Operating Hysteresis	V <sub>CC(on)</sub> - V <sub>CC(off)</sub>	V <sub>CC(HYS)</sub>	5.8	-	-	
Transition from I <sub>start1</sub> to I <sub>start2</sub>	V <sub>CC</sub> increasing, I <sub>HV</sub> = 650 μA	V <sub>CC(inhibit)</sub>	0.55	1.00	1.20	
Supply Current						mA
Before Startup, Fault or Latch	V <sub>CC</sub> = V <sub>CC(on)</sub> - 0.5 V	I <sub>CC1</sub>	0.05	0.10	0.50	
Flyback in Skip	V <sub>FB</sub> = 0.35 V	I <sub>CC2</sub>	0.2	0.68	1.0	
switching at 70 kHz	C <sub>DRV</sub> open	I <sub>CC3</sub>	1.0	1.6	3.0	
V <sub>CC</sub> Overvoltage Protection Threshold		V <sub>CC(OVP)</sub>	27	28	29	V

**JITTERING**

Amplitude of the CS Source Current	CS Pin Being Grounded	I <sub>jit</sub>	90	100	110	μA
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**FAULT PROTECTION**

Overvoltage Protection (OVP) Threshold	V <sub>Fault</sub> increasing	V <sub>Fault(OVP)</sub>	2.79	3.00	3.21	V
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New Datasheet

**STARTUP AND SUPPLY CIRCUITS**

Supply Voltage Startup Threshold Minimum Operating Voltage Operating Hysteresis Transition from $I_{start1}$ to $I_{start2}$	$dV/dt = 0.1 \text{ V/ms}$ $V_{CC}$ Increasing $V_{CC}$ Decreasing $V_{CC(on)} - V_{CC(off)}$ $V_{CC}$ Increasing, $I_{HV} = 650 \mu\text{A}$	$V_{CC(on)}$ $V_{CC(off)}$ $V_{CC(HYS)}$ $V_{CC(inhibit)}$	14.0 8.0 5.6 0.55	15.0 9.0 - 1.00	16.0 10.0 - 1.20	V
Supply Current Before Startup, Fault or Latch Flyback in Skip switching at 70 kHz	$V_{CC} = V_{CC(on)} - 0.5 \text{ V}$ $V_{FB} = 0.35 \text{ V}$ $C_{DRV}$ open	$I_{CC1}$ $I_{CC2}$ $I_{CC3}$	0.05 0.2 1.0	0.10 0.68 1.6	0.54 1.0 3.0	mA
$V_{CC}$ Overvoltage Protection Threshold		$V_{CC(OVP)}$	27	28	29.5	V

**JITTERING**

Amplitude of the CS Source Current	CS Pin Being Grounded	$I_{jit}$	85	100	110	$\mu\text{A}$
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**FAULT PROTECTION**

Overvoltage Protection (OVP) Threshold	$V_{Fault}$ increasing	$V_{Fault(OVP)}$	2.79	3.00	3.23	V
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List of Affected Standard Parts:

Part Number	Qualification Vehicle
NCP1339CDR2G	NCP1339EDR2G, NCP1339IDR2G, NCP1339JDR2G
NCP1339DDR2G	NCP1339EDR2G, NCP1339IDR2G, NCP1339JDR2G
NCP1339EDR2G	NCP1339EDR2G, NCP1339IDR2G, NCP1339JDR2G
NCP1339FDR2G	NCP1339EDR2G, NCP1339IDR2G, NCP1339JDR2G
NCP1339GDR2G	NCP1339EDR2G, NCP1339IDR2G, NCP1339JDR2G
NCP1339HDR2G	NCP1339EDR2G, NCP1339IDR2G, NCP1339JDR2G