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**PRODUCT BULLETIN # 20674**

Generic Copy

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**Issue Date:** 29-Oct-2014

**TITLE:** NCV4949A (NCV4949A/D) datasheet update

**PROPOSED FIRST SHIP DATE:** 29-Oct-2014

**AFFECTED CHANGE CATEGORY(S):** Datasheet

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor sales office or <Peter.Lanyon@onsemi.com>

**NOTIFICATION TYPE:**

ON Semiconductor considers this change approved unless specific conditions of acceptance are provided in writing. To do so, contact <quality@onsemi.com>.



**PRODUCT BULLETIN #20674**

**DESCRIPTION AND PURPOSE:**

- 1) Change made on page 1 in **Features** of the datasheet of NCV4949A/D. “NCV Prefix for Automotive and Other Applications Requiring Site and Change Control” replaced with “AEC-Q100 Grade 1 Qualified and PPAP Capable”.
- 2) Changes made on page 2 in **ABSOLUTE MAXIMUM RATINGS** table of the datasheet of NCV4949A/D. See below highlighted in yellow the updated values.

**ABSOLUTE MAXIMUM RATINGS**

Rating	Symbol	Value	Unit
DC Operating Supply Voltage (Note 1)	V <sub>CC</sub>	28	V
Transient Supply Voltage (t < 1.0 s)	V <sub>CC TR</sub>	40	V
Output Current	I <sub>out</sub>	Internally Limited	-
Output Voltage (Note 1)	V <sub>out</sub>	20	V
Sense Input Current	I <sub>SI</sub>	±1.0	mA
Sense Input Voltage (Note 1)	V <sub>SI</sub>	V <sub>CC</sub>	-
Output Voltages (Note 1)			V
Reset Output	V <sub>Reset</sub>	20	
Sense Output	V <sub>SO</sub>	20	
Output Currents			mA
Reset Output	I <sub>Reset</sub>	5.0	
Sense Output	I <sub>SO</sub>	5.0	
Preregulator Output Voltage (Note 1)	V <sub>Z</sub>	7.0	V
Preregulator Output Current	I <sub>Z</sub>	5.0	mA
Reset Delay Voltage (Note 1)	C <sub>R</sub>	7.0	V
Reset Delay Current	C <sub>R</sub>	Internally Limited	-
ESD Protection at any pin			V
Human Body Model	-	4000	
Machine Model	-	200	
Charged Device Model (SOIC-20 W)	-	1000	
Thermal Resistance, Junction-to-Air	R <sub>θJA</sub>		°C/W
SOIC-8		189.3	
SOIC-8 EP		84.8	
SOIC-20 W		95.8	
Operating Junction Temperature Range	T <sub>J</sub>	-40 to +150	°C
Storage Temperature Range	T <sub>stg</sub>	-65 to +150	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.  
 1. Absolute negative voltage on these pins not to go below -0.3 V.

- 3) Change made on page 3. Note added to **ELECTRICAL CHARACTERISTICS / PREREGULATOR** table of the datasheet of NCV4949A/D.

**ELECTRICAL CHARACTERISTICS** (continued) (V<sub>CC</sub> = 14 V, -40°C < T<sub>A</sub> < 125°C, unless otherwise specified.)  
**PREREGULATOR**

Preregulator Output Voltage (I <sub>Z</sub> = 10 μA)	V <sub>Z</sub>	-	6.3	-	V
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Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

- 4) Change made on page 4 in **PIN FUNCTION DESCRIPTION** table of the datasheet of NCV4949A/D. Comment added to Si pin description.

**PIN FUNCTION DESCRIPTION**

Pin	Pin	Symbol	Description
SO-8, SO-8 EP	SO-20 W		
1	19	V <sub>CC</sub>	Supply Voltage
2	20	S <sub>I</sub>	Input of Sense Comparator. <b>If not used, connect to V<sub>out</sub>.</b>
3	1	V <sub>Z</sub>	Output of Preregulator



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**List of affected General Parts:**

NCV4949ADR2G

NCV4949APDR2G

NCV4949ADWR2G