



Title of Change:	NCV47722 datasheet update	
Effective date:	26 Jun 2020	
Contact information:	Contact your local ON Semiconductor Sales Office or Juraj.Kremmer@onsemi.com	
Type of notification:	This Product Bulletin is for notification purposes only. ON Semiconductor will proceed with implementation of this change upon publication of this Product Bulletin.	
Change Category:	Datasheet/Product Doc change	
Change Sub-Category(s):	Datasheet/Product Doc change	
Sites Affected:		
ON Semiconductor Sites	External Foundry/Subcon Sites	
None	None	

Description and Purpose:

- 1) Removing package information of those packages marked as "In Development" on Page 1: SO-8, SO-8EP and DFN8. These were meant as potential future package options, however there is no actual development work ongoing. This change is done to avoid confusions. Changes on Page 1, 3, 10, 12, 13, 14.
- 2) There are 3 minor corrections done in the datasheet to avoid confusions. Changes on Page 2, 7 and 10.

Changes to be implemented in datasheet revision: NCV47722/D, July, 2020 – Rev. 1.

The changes will not impact form, fit, or function of product.

- 1) Removing package information of those packages marked as "In Development".

Page 1: Removing SO-8, SO-8EP and DFN8 packages from the Marking Diagram section

Page 3: Removing SO-8, SO-8EP and DFN8 Pin connections diagrams in Figure 3. And columns belonging to SO-8, SO8EP and DFN8 Pin numbering from Table 1.

NCV47722

High Side Switch with Adjustable Current Limit and Diagnostic Features

The NCV47722 High Side Switch (HSS) with 250 mA is designed for use in harsh automotive environments. The device has a high peak input voltage tolerance and reverse input voltage, reverse bias, overcurrent and overtemperature protection. The integrated current sense feature (adjustable by resistor connected to CSO pin) provides diagnosis and system protection functionality. The CSO pin output current creates voltage drop across CSO resistor which is proportional to output current. Extended diagnostic features in OFF state are also available and controlled by dedicated input and output pins.

Features:

- Output Current: up to 250 mA
- Enable Input (3.3 V Logic Compatible)
- Adjustable Current Limit: up to 350 mA
- Protection Features:
 - Current Limitation
 - Thermal Shutdown
 - Reverse Input Voltage and Reverse Bias Voltage
- Diagnostic Features:
 - Short To Battery (STB) and Open Load (OL) in OFF State
 - Internal Components for OFF State Diagnostics
 - Open Collector Flag Output
 - Output Voltage Monitoring Output (analog)
- AEC-Q100 Grade 1 Qualified and PPAP Capable
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

Typical Applications

- Audio and Infotainment System
- Active Safety System

Figure 1. Application Schematic

This document contains information on some products that are still under development. ON Semiconductor reserves the right to change or discontinue these products without notice.

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April, 2017 – Rev. 0

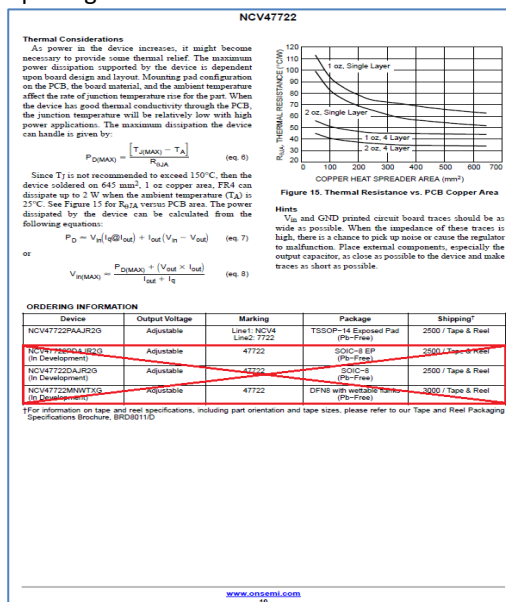
NCV47722

Figure 3. Pin Connections (Top Views)

Table 1. PIN FUNCTION DESCRIPTION

Pin No.	Pin No.	Pin No.	Pin Name	Description
1	1	1	NC	Not Connected, not internally bonded.
2	2	2	NC	Not Connected, not internally bonded.
3	3	3	NC	Not Connected, not internally bonded.
4	4	4	GND	Power Supply Ground.
5	5	5	EN	Enable Input, low level disables regulator. (Used also for OFF state diagnosis control.)
6	6	6	CSO	Current Sense Output, Current Limit setting and Output Current value information. See Application Section for more details.
7	7	7	V _{DD}	Power Supply Input.
8	8	8	V _{OUT}	Regulated Output Voltage.
9	9	9	V _{OUT} FB	Output Voltage Analog Monitoring. See Application Section for more details.
10	10	10	DE	Diagnostic Enable Input.
11	11	11	EF	Error Flag (Open Collector) Output, Active Low.
12	12	12	NC	Not Connected, not internally bonded.
13	13	13	NC	Not Connected, not internally bonded.
14	14	14	NC	Not Connected, not internally bonded.
EPAD	EPAD	EPAD	EPAD	Exposed Pad is connected to Ground. Connect to GND plane on PCB.

Page 10: Removing SO-8, SO-8EP and DFN8 packages from the ORDERING INFORMATION table.



Page 12,13,14: Removing SO-8, SO-8EP and DFN8 case outlines.

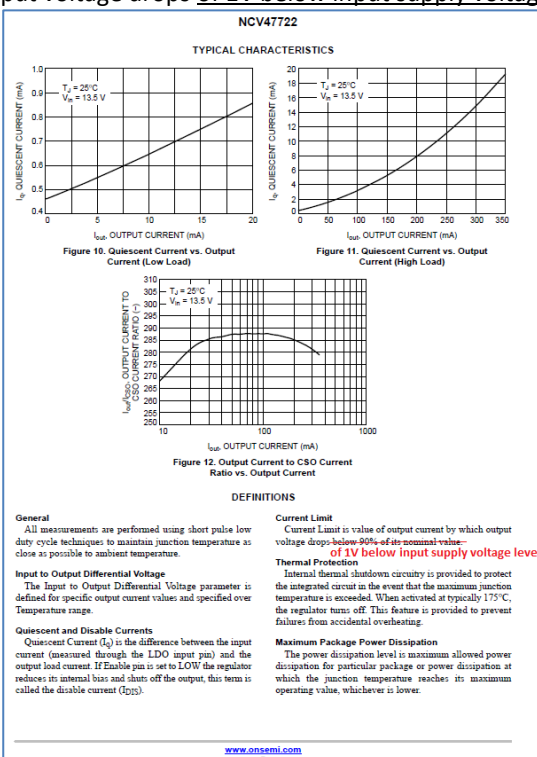
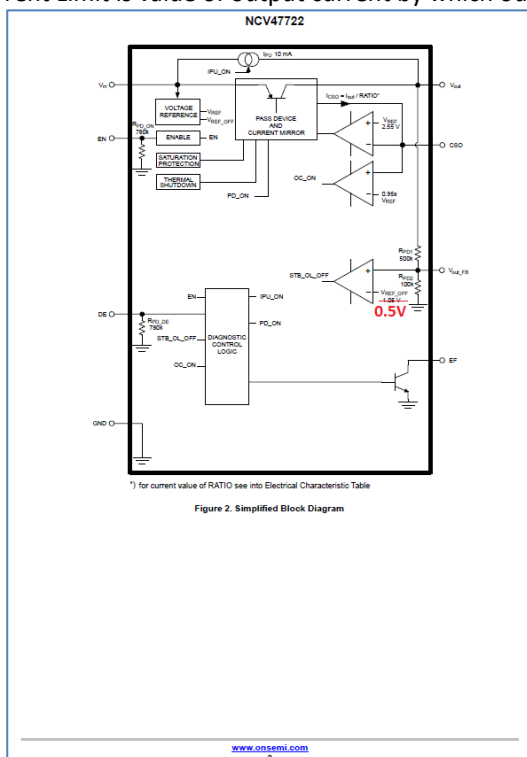
2) Minor corrections in the datasheet

Page 2: Correcting VREF_OFF from 1.05V to 0.5V

Page 7: Correcting the definition of the Current Limit

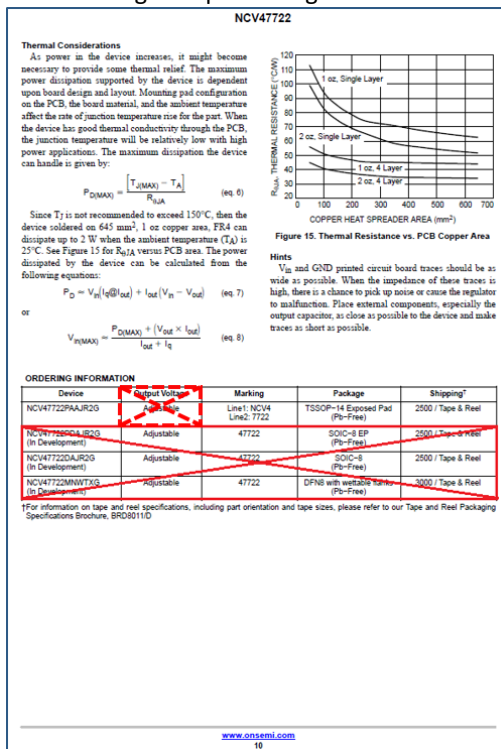
From: Current Limit is value of output current by which output voltage drops below 90% of its nominal value.

To: Current Limit is value of output current by which output voltage drops of 1V below input supply voltage level.





Page 10: Besides removing package data, also removing "Output Voltage" definition from the ORDERING INFORMATION table.



List of Affected Standard 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**.

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