



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16814

Generic Copy

Issue Date: 22-Feb-2012

TITLE: NCS1002 Design Change

PROPOSED FIRST SHIP DATE: 22-May-2012

AFFECTED CHANGE CATEGORY(S): Design Change

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or Tim Gurnett <Tim.Gurnett@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office or Tim Gurnett <Tim.Gurnett@onsemi.com>

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Office or Ken Fergus <Ken.Fergus@onsemi.com>

NOTIFICATION TYPE:

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 90 days 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 <quality@onsemi.com>.

DESCRIPTION AND PURPOSE:

This customer notification details the redesign of the NCS1002 family of CV/CC controllers. Only the part numbers listed below are included in this change. The device designs will be revised to match the latest design rules for the wafer process. Parts will be pin-for-pin replacements for existing devices, with no change in datasheet parameters or part nomenclature. The wafer fab location remains as the ON Semiconductor wafer fab located in Roznov, Czech Republic. Customer Samples are available at the issuance of the Final PCN.



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RELIABILITY DATA SUMMARY:

Reliability Test Results:

#	Test	Name	Test Conditions	End Point Req's	Test Results	(rej/ ss)
					Read Point	Lot A
1	Prep	Sample preparation and initial part testing	Various	---	Initial Electrical	Done
2	HTOL	High Temp Operatiing Life	125°C Biased	c = 0, Room	504 Hrs	0/80
3	PC	MSL1 Preconditioning	3 IR @ 260 deg C	c = 0, Room	-	done
5	TC-PC	Precond. Temp Cycle	-65/+150 C	c = 0, Room	500 cyc	0/80
6	UHAST-PC	Precond. UHast	TA = 130 C, RH = 85%,PSIG = 18.8	c = 0, Room	96 hrs	0/80

Table 1: Reliability Evaluation Results for NCS1002DR2G
Qualification Points in BOLD.

ELECTRICAL CHARACTERISTIC SUMMARY:

Product performance continues to meet datasheet specifications.

CHANGED PART IDENTIFICATION:

Upon effectivity of this notification, devices will be transitioned to the new die. Manufacturing traceability will be maintained to allow identification of the die version. Part nomenclature will not be changed.

List of affected General Parts:

NCS1002DR2G