



FINAL PRODUCT/PROCESS CHANGE NOTIFICATIONGeneric Copy

04 May 2006**SUBJECT: ON Semiconductor Final Product/Process Change Notification #15519****TITLE:** Final Notification for Transfer of CS5211 Device from EG to ONPY2 and Change in the part number to NCP5211**EFFECTIVE DATE:** 15 May 2006**AFFECTED CHANGE CATEGORY(S):** ON Semiconductor Fab Site**AFFECTED PRODUCT DIVISION(S):** Analog Power Management**ADDITIONAL RELIABILITY DATA:** AvailableContact your local ON Semiconductor Sales Office or <Brian.Kelly@onsemi.com>**SAMPLES:** Contact your local ON Semiconductor Sales Office**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**Contact your local ON Semiconductor Sales Office or <Brian.Kelly@onsemi.com>**NOTIFICATION TYPE:**

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. Normally, FPCNs are issued at least 60 days prior to implementation of the change. Because of a shortage of the EG die, the implementation date is shorter. 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 your local ON Semiconductor Sales Office.

DESCRIPTION AND PURPOSE:

This is the Final PCN to Initial PCN 15302 available at www.onsemi.com. The purpose of this Final PCN is to notify customers of ON Semiconductor's qualification and transfer of the production of NCP5211 device, formerly known as CS5211. The NCP5211 is an 18 Volt Analog Bipolar integrated circuit, transferred from the East Greenwich facility in Rhode Island (USA) to the ONPY2 wafer fab located in Piestany, Slovakia. This transfer is being made due to the closure of the East Greenwich manufacturing facility. The CS5211 device was also included in ON Semiconductor's Q1 2006 Product Discontinuance memo available at www.onsemi.com. NCP5211 orderability is effective at time of PCN issuance.


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RELIABILITY DATA SUMMARY:

Qualification was performed to the following requirements for the NCP5211:

One lot full electrical test; temperature electrical characterization for 1 lot, 30 units ED; Human Body Model and Machine Model ESD and Latch-up tests for one lot.

Reliability Test Results:

AEC #	Test	Ref.	Test Conditions	Accept	Read points	Minimum Sample Size	# of Lots	Total Units	End Point Requirements	Comments	Qual Site
	Electrical Test	ON Product Spec	ON Product Spec	c = 0	See below	All devices			Room		BU
22	ESD	AEC-Q100-002 AEC-Q100-003	Human Body Model (HBM), Machine Model (MM), and CDM	c = 0	Test @ Room	3 units/V level per Model	1	18		HBM = 4000V MM = 400V	BU
23	LU	AEC-Q100-004	Dynamic Latch-up	c = 0	Test @ Room	6	1	6		Pass 100 mA	BU
29	ED	ON Semiconductor Datasheet	Electrical Distribution	Ppk > 1.66	Ppk > 1.66	30	1	30		Pass	BU

Earlier qualification was completed for the 18V transfer to the following requirements:

Three NCP5318 temperature electrical characterization; 3 lots, 30 units each lot (NCP5314 1 lot), Human Body Model and Machine Model ESD test for 1 lot, Latch-up test for 1 lot.

Reliability tests used the qualification vehicles as below:

NCP5318FTR2 3 Lots HTOL, HTB (1 lot), PC, THB, AC, TC, BPS (1 lot), ELFR

NCP5314FTR2 1 Lot HTOL (168 hrs)

Reliability tests are:

Test	Conditions	Sample Size	Duration
High Temp. Operating Life (HTOL)	Ta=+125C, Bias	77	1008 hrs
High Temperature Bake (HTB)	+150C	77	1000 hrs
Temperature Humidity Bias (THB)*	+85C/85%RH	77	1008 hrs
Autoclave (AC)*	+121C/100%RH/15psig	77	96 hrs
Temp.Cycle (TC)*	-65C to +150C	77	500 cycles
Wire Bond Pull Strength (BPS)	After TC, 30 bonds	5	
Early Life (ELFR)	Ta=+125C, Bias 800 or Ta=+150C, Bias 24 hrs)		48 hrs

*Note: These tests performed with preconditioned parts, JEDEC MSL 1.

**Final Product/Process Change Notification #15519****CHANGED PART IDENTIFICATION:**

New devices will be marked as
NCP5211G (Pb-free) or NCP5211BG (extended temp range Pb-free)

Affected Device List	New Device number
CS5211EDR14	NCP5211BDR2G (only offered on reels and Pb-Free)
CS5211EDR14G	NCP5211BDR2G (only offered on reels and Pb-Free)
CS5211ED14	NCP5211BDR2G (only offered on reels and Pb-Free)
CS5211ED14G	NCP5211BDR2G (only offered on reels and Pb-Free)
CS5211GDR14	NCP5211DR2G (only offered on reels and Pb-Free)
CS5211GDR14G	NCP5211DR2G (only offered on reels and Pb-Free)
CS5211GD14	NCP5211DR2G (only offered on reels and Pb-Free)
CS5211GD14G	NCP5211DR2G (only offered on reels and Pb-Free)