



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #20679

Generic Copy

Issue Date: 07-Nov-2014

TITLE: NCP81166MNTBG (PQ) DFN 2x2 Qualification in ON Semiconductor Seremban

PROPOSED FIRST SHIP DATE: 14-Feb-2015 or sooner upon customer approval

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or Polen Pitpit < Polen.Pitpit@onsemi.com >

SAMPLES: Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Office or Mohd Azizi Azman <fg63pd@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 is a Final Process Change Notice notifying customers of ON Semiconductor that Power Switching device NCP81166MNTBG built on QFN 2x2 is now qualified at ON Seremban, Assembly and Test facility.

The affected device on this PCN is qualified in Cu Wire BOM in ON Semiconductor Seremban Assembly.

The full electrical characterization over temperature performed on the qualification vehicle confirmed meeting the device functionality and electrical specifications.



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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	Lot B	Lot C	Lot 2
1	UHAST-PC	Precon + Unbiased Highly Accelerated Stress Test	TAmin = 130C, RH = 85%, Pressure = 18.8 psig	c = 0, Room (96)	96h	0/77	0/77	0/77	0/77
2	TC+PC	Precon +Temperature Cycling	TAmin = -65C, TAmx = 150C	c = 0, Room (500)	250cyc	0/77	0/77	0/77	0/77
					500cyc	0/77	0/77	0/77	0/77
3	RSH	Resistance To Solder Heat	TAmin = 260C	c = 0, Room (0)	Results	0/30	0/30	0/30	0/30

ELECTRICAL CHARACTERISTIC SUMMARY:

Electrical characteristic meet or exceeds the device specification.

CHANGED PART IDENTIFICATION:

At the expiration of this FPCN, UTAC, Thailand and ON Semiconductor Seremban facility will follow ON Semiconductor standard marking for QFN packages. Assembly location can be identified by the assembly code seen on the top marking.

UTAC assembly code: G
Seremban Assembly Code: R

List of affected General Parts:

NCP81166MNTBG