ON Semiconductor

FINAL PRODUCT/PROCESS CHANGE NOTIFICATION
Generic Copy

21-MAR-2005

SUBJECT: ON Semiconductor Final Product/Process Change Notification #13984

TITLE: Final PCN for Qualification of VHVIC SOT-223 Products at ON Semiconductor, Seremban, Malaysia

EFFECTIVE DATE: 21-May-2005

AFFECTED CHANGE CATEGORY(S): ON Semiconductor Assembly Site

AFFECTED PRODUCT DIVISION(S): Analog Products

ADDITIONAL RELIABILITY DATA: Available
Contact your local ON Semiconductor Sales Office or Ken Fergus <RRST50@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office or
Scott Brow <FFTGCB@onsemi.com>

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:
Contact your local ON Semiconductor Sales Office or Scott Brow <FFTGCB@onsemi.com>

NOTIFICATION TYPE:

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 60 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 your local ON Semiconductor Sales Office.

DESCRIPTION AND PURPOSE:
This is the Final Product Change Notification (follow up to IPCN 13513) to make customers aware that ON Semiconductor's internal assembly site in Seremban, Malaysia, is qualified to assemble ON Semiconductor's VHVIC SOT-223 products for increased capacity. These products are currently assembled at PSI Technologies in Manila, Philippines. Parts may be assembled at either of these sites upon expiration of this PCN.

Device parameters will continue to meet all Datasheet specifications, and reliability will continue to meet or exceed ON Semiconductor standards.

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RELIABILITY DATA SUMMARY:
Reliability Test Results:
2 Lots of NCP1053ST136, 1 lot of NCP1014ST65

Test	Condition	Interval	SS	Results
HTBB	TA=125C, Bias	504 hrs	3x80	0/240
HTB	TA=150C	1008 hrs	3x80	0/240
MSL1 PC	85C/85%, 3 IR at 235C	168 hrs	9x80	0/720
PCMSL1-TC	-65/+150C	1000 cycles	3x80	0/240
PCMSL1-Hast	TA=130C,RH=85%, Psig=18.8, bias	96 hrs	3x80	0/240
PCMSL1-UHast	TA=130C,RH=85%, Psig=18.8, no bias	96 hrs	3x80	0/240
MSL3 PC	30C/60%, 3 IR at 260C	192 hrs	9x80	0/720
PCMSL3-TC	-65/+150C	1000 cycles	3x80	0/240
PCMSL3-Hast	TA=130C,RH=85%, Psig=18.8, bias	96 hrs	3x80	0/240
PCMSL3-UHast	TA=130C,RH=85%, Psig=18.8, no bias	96 hrs	3x80	0/240

ELECTRICAL CHARACTERISTIC SUMMARY:
Datasheet specifications remain unchanged.

CHANGED PART IDENTIFICATION:
Parts marked with date code after 0518 may be sourced from either site.

AFFECTED DEVICE LIST (WITHOUT SPECIALS)

PART

NCP1010ST100T3
NCP1010ST130T3
NCP1010ST65T3
NCP1011ST100T3
NCP1011ST130T3
NCP1011ST65T3
NCP1011ST65T3G
NCP1012ST100T3
NCP1012ST100T3G
NCP1012ST130T3
NCP1012ST65T3
NCP1012ST65T3G
NCP1012XST100T3
NCP1013ST100T3

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NCP1013ST130T3
NCP1013ST65T3
NCP1014ST100T3
NCP1014ST100T3G
NCP1014ST65T3
NCP1014ST65T3G
NCP1050ST100T3
NCP1050ST100T3G
NCP1050ST136T3
NCP1050ST136T3G
NCP1050ST44T3
NCP1051ST100T3
NCP1051ST136T3
NCP1051ST44T3
NCP1052ST100T3
NCP1052ST100T3G
NCP1052ST136T3
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NCP1055ST44T3