



UPDATE NOTIFICATION
Generic Copy

12-APR-2001

SUBJECT: Update Notification #11169

TITLE: Update to PCN#10664 and Manufacturing Site Change for MC78LC Series

EFFECTIVE DATE: 19-Jul-2001

AFFECTED CHANGE CATEGORIES:

- ON Semiconductor Assembly Site**
- Subcontractor Assembly Site**
- ON Semiconductor Fab Site**
- Subcontractor Fab Site**
- ON Semiconductor Test Site**
- Subcontractor Test Site**
- Package Change**
- Design Change**

AFFECTED PRODUCT DIVISION: Analog Products

ADDITIONAL RELIABILITY DATA: Available
Contact your local ON Semiconductor Sales Office.
or Don Warring <RRGA60@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office.
or Laurent Maniscalco <R47704@onsemi.com>

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:
Contact Sales Office or Marquita Jones <FFBPTW@onsemi.com>

DISCLAIMER:

Initial Product/Process Change Notification (IPCN) -First Notification distributed to customers.
Distributed at least 120 days from the effective date of the change.

Final Product/Process Change Notification (FPCN) -Final Notification completing the notification process. Distributed at least 60 days from the effective date 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.

**Update Notification #11169****DESCRIPTION AND PURPOSE:** (This is an amendment to PCN#10664.)

ON Semiconductor wishes to announce the continual support of the MC78LC series of Wireless Analog products and the redesign and manufacturing site change of those devices. Parametric performance is slightly different as high-lighted in the Electrical Characterization Summary. Output Current is improved and output voltage is improved ($V_o=3.3,5.0$). There is also a package change from SOT-23-5 to TSOP-5. Both packages fit the same solder pads. In addition, the TSOP-5 package adds a height advantage via it's low profile. There are no functional changes or specification changes other than the high-lighted parameters: output current, output voltage, dropout voltage, quiescent current. The MC78LC series has been redesigned to support the change in manufacturing location. The redesigned devices will be fabricated at our ON Aizu-6 facility in Aizu, Japan and assembly and final test will be done at ON's Seremban, Malaysia facility. Both the ON Aizu-6 and Seremban sites have been QS9000 certified. ON Semiconductor will provide modified datasheets, samples, and reliability reports for the redesigned devices upon request. Please contact your ON Sales representative or the personnel listed on this notification if there is any additional information or technical support required to transition to the redesigned devices. Production will be converted to the redesigned devices upon expiration of this notification.

There will not be a part number change for the redesigned devices; however, redesigned material can be distinguished by the marking scheme:

Old MC78LC:

MC78LC30NTR 0CXX

MC78LC33NTR 3CXX

MC78LC40NTR 0DXX

MC78LC50NTR 0EXX

Where first two characters represent the device code and XX represents the lot number.

New MC78LC:

MC78LC30NTR LALYW

MC78LC33NTR LAMYW

MC78LC40NTR LECYW

MC78LC50NTR LANYW

Where first three characters represent the device code and YW represents the date code.

QUALIFICATION PLAN: Available upon request.

RELIABILITY DATA SUMMARY: Available upon request.

CHANGED PART IDENTIFICATION: See above "marking scheme".



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ELECTRICAL CHARACTERISTIC SUMMARY:

Characteristic	Voltage	Min/Typ/Max	Old	New
Output Voltage	3.0 V	Min	2.95 V	2.94 V
Output Voltage	3.0 V	Max	3.075 V	3.06 V
Output Voltage	3.3 V	Min	3.218 V	3.234 V
Output Voltage	3.3 V	Max	3.382 V	3.366 V
Output Voltage	5.0 V	Min	4.875 V	4.9 V
Output Voltage	5.0 V	Max	5.125 V	5.10 V
Output Current	3.0 V	Min	35 mA	50 mA
Output Current	3.0 V	Typ	50 mA	80mA
Output Current	3.3 V	Min	35 mA	50 mA
Output Current	3.3 V	Typ	50 mA	80 mA
Output Current	4.0 V	Min	45 mV	50 mV
Output Current	4.0 V	Typ	65 mV	80 mV
Output Current	5.0 V	Min	55 mA	80 mA
Output Current	5.0 V	Typ	80 mA	100 mA
Dropout Voltage	3.0 V	Typ	40 mV	30 mV
Dropout Voltage	3.3 V	Typ	35 mV	30 mV
Dropout Voltage	3.3 V	Max	53 mV	60 mV
Dropout Voltage	4.0 V	Typ	25 mV	30 mV
Dropout Voltage	4.0 V	Max	38 mV	60 mV
Dropout Voltage	5.0 V	Typ	25 mV	30 mV
Dropout Voltage	5.0 V	Max	38 mV	60 mV
Quiescent Current	3.0 V	Max	3.3 uA	3.6 uA
Quiescent Current	3.3 V	Max	3.3 uA	3.6 uA
Quiescent Current	4.0 V	Typ	1.2 uA	1.1 uA
Quiescent Current	5.0 V	Max	3.9 uA	3.6 uA

AFFECTED DEVICE LIST:

PART

- MC78LC30NTR
- MC78LC33NTR
- MC78LC40NTR
- MC78LC50NTR