
PRODUCT/PROCESS CHANGE NOTIFICATION
Generic Copy

21-SEP-2001

SUBJECT: ON Semiconductor Product/Process Change Notification #11765

TITLE: Small Signal Wafer Process Conversion Addendum

EFFECTIVE DATE: 21-Nov-2001

AFFECTED CHANGE CATEGORY: Wafer Process, Die Shrink, and Design Change

AFFECTED PRODUCT DIVISION: Bipolar Discretes Products

ADDITIONAL RELIABILITY DATA: Available
Contact your local ON Semiconductor Sales Office or Monica Griffin <R39205@onsemi.com >

SAMPLES: Contact Below
Contact your local ON Semiconductor Sales Office or Monica Griffin <R39205@onsemi.com>

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:
Contact Sales Office or Monica Griffin <R39205@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.

DESCRIPTION AND PURPOSE:
This process change notification is an addendum to PCN 10149 that was issued last year, to include additional parts. These parts share the same process as parts already converted. This is to advise customers of the conversion of ON Semiconductor's Small Signal family from 12um to 6um linewidth wafer process. The change methodology will result in die shrink. The devices will be guaranteed to meet all existing specs.

QUALIFICATION PLAN:
See Reliability Data.

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RELIABILITY DATA SUMMARY:

1)Qual Vehicle: BC857BLT1
2) Test Results

Test	Item	Results Sample Size/ Rejects
HTRB(@Ta=150 deg C w/bias	1000 hours	231/0
IOL Tj=100 degC, Ta=25 deg C	1000 hours	231/ 0
Temp Cycle Ta=65/150 deg C	1000 cycles	231/ 0
Autoclave (15PSI,121degc RH=100%)	192 hours	231/ 0

ELECTRICAL CHARACTERISTIC SUMMARY:

Electrical characterization indicates parameteric distribution remains unchanged.
Data available on request.

CHANGED PART IDENTIFICATION:

No physical change to the external portion of the product. Affected date codes may be 0148 or later for TO92 and a date code of C or later for SOT23.

RELATED NOTIFICATIONS:

#10149 - SMALL SIGNAL WAFER PROCESS CONVERSION

AFFECTED DEVICE LIST (WITHOUT SPECIALS)

PART

2N3903
2N3903RLRM
2N3904
2N3904RL1
2N3904RLRA
2N3904RLRE
2N3904RLRM
2N3904RLRP
2N3904ZL1
2N4123
2N4123RLRA
2N4123RLRM
LC945Q
MMBT6429LT1
MPS8598RLRA
MPS8599RLRA
MPS9634C
SMBT1000LT1
SMMBT6429LT1
SMMBT6429LT3