



INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION
Generic Copy

26-MAY-2005

SUBJECT: ON Semiconductor Initial Product/Process Change Notification #14094

TITLE: Initial Notification - Die Redesign for Small Signal Device Lines

EFFECTIVE DATE: 26-Sep-2005

AFFECTED CHANGE CATEGORY: Design Change

AFFECTED PRODUCT DIVISION: Discretes Products

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:
Contact Sales Office or Mike Sweador <FFBPXW@onsemi.com>

NOTIFICATION TYPE:

Initial Product/Process Change Notification (IPCEN)

First change notification sent to customers. IPCENs are issued at least 120 days prior to implementation of the change. An IPCEN is advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan.

The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN).

This IPCEN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 60 days prior to implementation of the change.

DESCRIPTION AND PURPOSE:

ON Semiconductor is notifying customers that we will be performing a die redesign on selected medium current NPN and PNP transistors and selected switching diode device lines. Device performance and reliability will remain unchanged. There will be no changes to package dimensions, functionality, or data sheet specifications. ON Semiconductor continually strives for quality assurance and improvement, providing high quality products.



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QUALIFICATION PLAN:

Environment tests:

- i) Autoclave 96 hours
- ii) Temp Cycle 1000 cycles

Life tests:

- i) HAST 96 hours
- ii) HTRB 1008 hours
- iii) IOL 1008 hours

Electrical:

Parametric Characterization.

Qualification Vehicles:

- MMBT2222ALT1 - NPN Transistor.
- MMBTA06LT1 - NPN Transistor.
- BAS21LT1 - 250V Switching Diode.
- MMBTA56LT1 - PNP Transistor.

These qualification vehicles will be subjected to all above test requirements.

Each device will have 3 qualification lots and 77 units per test.

AFFECTED DEVICE LIST (WITHOUT SPECIALS):

PART

2N4401
2N4401G
2N4401RLRA
2N4401RLRAG
2N4401RLRM
2N4401RLRP
2N4401RLRPG
BAS19LT1
BAS19LT1G
BAS19LT3
BAS20HT1
BAS20HT1G
BAS20LT1
BAS21DW5T1
BAS21DW5T1G
BAS21HT1
BAS21HT1G
BAS21LT1
BAS21LT1G
BAS21LT3
BAS21LT3G
BAS21SLT1



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BAS21SLT1G
BC327
BC327-016
BC327-025
BC327-16ZL1
BC327-25RL1
BC327-25RL1G
BC327-25ZL1
BC327RL1
BC327ZL1
BC337
BC337-016
BC337-025
BC337-040
BC337-16RL1
BC337-16ZL1
BC337-25RL1
BC337-25ZL1
BC337-40RL1
BC337-40ZL1
BC337G
BC337RL1
BC337ZL1
BC338-25ZL1
BC447
BC449
BC449A
BC487
BC487B
BC487BRL1
BC489
BC489A
BC489AZL1
BC489BZL1
BC489RL1
BC490
BC490A
BC490AZL1

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- BC635RL1
- BC635ZL1
- BC637
- BC637G
- BC638
- BC638ZL1
- BC639
- BC639G
- BC639RL1
- BC639RL1G
- BC639ZL1
- BC640
- BC640-016
- BC640-016G
- BC640ZL1
- BC640ZL1G
- BC807-16LT1
- BC807-16LT3
- BC807-16LT3G
- BC807-25LT1
- BC807-25LT1G
- BC807-25LT3
- BC808-25LT1
- BC808-25LT1G
- BC817-16LT1
- BC817-16LT1G
- BC817-16LT3
- BC817-25LT1
- BC817-25LT1G
- BC817-25LT3
- BC817-25LT3G
- BC817-40LT1
- BC817-40LT1G
- BC817-40LT3
- BC817-40LT3G
- BC818-40LT1
- BCW65ALT1
- BCW65ALT1G

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BCW65CLT1
BCW66GLT1
BCW66GLT1G
BCW68GLT1
BCW68GLT1G
BCX17LT1
BCX17LT1G
BCX17LT3
BCX18LT1
BCX19LT1
BCX19LT1G
BDC02DRLRP
BSS63LT1
BSS64LT1
BSS64LT1G
BSS79CLT1
LMC2222AWP
LMC807-25WP
LMCF036WP
LMCF123WP
LMCF143WP
LMCF145WP
LMCF807-16WP
LMCF817-16WP
LMCFA56WP
LMCFS21WP
LSBT1368WP
MBT2222ADW1T1
MMBT2131T1
MMBT2131T1G
MMBT2222ALT1
MMBT2222ALT1G
MMBT2222ALT3
MMBT2222ALT3G
MMBT2222ATT1
MMBT2222ATT1G
MMBT2222AWT1
MMBT2222AWT1G

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- MMBT2222LT1
- MMBT2222LT1G
- MMBT2222LT3
- MMBT4401LT1
- MMBT4401LT1G
- MMBT4401LT3
- MMBT4401WT1
- MMBT4401WT1G
- MMBT8099LT1
- MMBTA05LT1
- MMBTA05LT1G
- MMBTA05LT3
- MMBTA06LT1
- MMBTA06LT1G
- MMBTA06LT3
- MMBTA06WT1
- MMBTA06WT1G
- MMBTA55LT1
- MMBTA55LT1G
- MMBTA55LT3
- MMBTA56LT1
- MMBTA56LT1G
- MMBTA56LT3
- MMBTA56LT3G
- MMBTA56WT1
- MMPQ2222A
- MMPQ2222AR1
- MMPQ2222AR2
- MMSD103T1
- MPS2222
- MPS2222A
- MPS2222ACRLRP
- MPS2222AG
- MPS2222ARL
- MPS2222ARLRA
- MPS2222ARLRM
- MPS2222ARLRP
- MPS2222AZL1

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- MPS2222G
- MPS2222RLRA
- MPS2222RLRM
- MPS2222RLRP
- MPS4356RLRA
- MPS6560
- MPS6601
- MPS6601G
- MPS6601RLRA
- MPS6601RLRAG
- MPS6602
- MPS6602G
- MPS6602RLRA
- MPS6717
- MPS6717RLRA
- MPS8098
- MPS8098RLRA
- MPS8099
- MPS8099RLRA
- MPS8099RLRM
- MPS8099RLRP
- MPSA05
- MPSA05RLRA
- MPSA05RLRAG
- MPSA05RLRM
- MPSA05RLRMG
- MPSA06
- MPSA06RL
- MPSA06RL1
- MPSA06RL1G
- MPSA06RLRA
- MPSA06RLRAG
- MPSA06RLRM
- MPSA06RLRMG
- MPSA06RLRP
- MPSA06RLRPG
- MPSA55
- MPSA55RLRA

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- MPSA56
- MPSA56G
- MPSA56RLRA
- MPSA56RLRM
- MPSA56RLRP
- MPSA56ZL1
- MPSW05
- MPSW06
- MPSW06G
- MPSW06RLRA
- MPSW06RLRAG
- MSB710-RT1
- MSB710-RT1G
- MSD602-RT1
- MSD602-RT1G
- NST8099WP
- NSVBAS21HT1
- NSVBAS21HT3
- NSVD2004ML2T1
- P2N2222A
- P2N2222ARL1
- P2N2222ARL1G
- P2N2222AZL1
- PN2222
- PN2222A
- PN2222AG
- PN2222ARLRA
- PN2222ARLRM
- PN2222ARLRP
- SBAS21LT1
- SBAS21LT3
- SBC807-16LT1
- SBC807-16LT3
- SBC807-25LT3
- SBC817-16LT1
- SBC817-16LT3
- SBC817-25LT3
- SBC817-40LT1

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SBC817-40LT3
SBCX17LT1
SBCX19LT1
SMMBT2222ALT1
SMMBTA06LT1
SMMBTA06LT3
SMMBTA56LT1
SMMBTA56LT3

Cancelled