
PRODUCT/PROCESS CHANGE NOTIFICATION

ISSUE DATE: 01-Feb-2000 NOTIFICATION #:10129
EFFECTIVE DATE: 01-Apr-2000 ISSUING DIVISION:ON SEMI - GPPD

DESCRIPTION AND PURPOSE

In order to provide its customers with continuous, long term supply of MG CMOS products, ON Semiconductor has successfully completed the process and device technology transfer to its newly constructed wafer fabrication facility in Piestany, Slovakia (SEI-1). This transfer was strictly controlled by ON Semiconductor's "Copy Exactly Methodology" resulting in consistent parametric performance with existing devices.

QUALIFICATION PLAN

Preliminary data:

ESD - 2000v HBM, 200v MM. Latch-up +/-100 mA and/or +/-3V @ Databook maximum operating temperature. Assembly process control data indicates Wire Pull, Die Shear and Ball Shear data well above minimum specification and consistent with MOS 1 control lots.

DPA - PASSED

RELIABILITY DATA SUMMARY

Full reliability testing is currently underway and scheduled for completion on 2/11/00.

Qualification Devices: 3 lots - MC14051BD, 1 lot - MC14011BD

Interim readouts have been completed as follows:

MC14011BD - MASK QUAL - 1 lot and 1 Control

Moisture Sensitivity Level 1 (MSL 1) - PASSED
Autoclave - 96 hours - PASSED
Autoclave-PC - 96 hours - PASSED
HAST w/preconditioning (MSL-1) - 96 hours - PASSED
HTOL - 504 hours - PASSED
HTB - 175 deg.C - 504 hours - PASSED
TC - 500 cycles - PASSED
TC w/preconditioning (MSL 1) - PASSED

MC14051BD - BASE QUAL - 3 lots and 1 Control

Moisture Sensitivity Level 1 (MSL 1) - PASSED
Autoclave - 96 hours - PASSED
Autoclave-PC - 96 hours - PASSED
HAST w/preconditioning (MSL 1) - 96 hours - PASSED
HTOL - 504 hours - PASSED
HTB - 175 deg.C - 504 hours - PASSED
TC - 500 cycles - PASSED
TC w/preconditioning (MSL 1) - PASSED

ELECTRICAL CHARACTERISTIC SUMMARY

Devices produced in SEI-1 will utilize ON Semiconductor designs and parametric characteristics will match ON Semiconductor's current product. Full characterization is underway and scheduled to be completed by 2/15/00.

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Preliminary data is as follows:

- All class probe parametrics have been matched to the previous MOS 1 historical mean values within 3 sigma.
- Wafer probe yields on all qual lots >98%.
- Final test yields on all qual lots >99%.
- Ron values for the MCl4051BD match MOS 1 historical data across all 3 lots within 20 ohms.

CHANGED PART IDENTIFICATION

No device marking changes. Traceability code changes in wafer fab location indicator. ON Semiconductor may begin shipping product from SEI-1 starting with assembly datecode ww10, 2000.

FILE FORMAT: ASCII TEXT

FONT - Courier

SIZE - 12 Point

LINE - 70 characters/line

PAGE - 55 lines/page

PAGEBREAK CHARACTER - ^L (Control L)

AFFECTED DEVICE LIST (WITHOUT SPECIALS)

| | | | |
|--------------|-----------------|-----------------|----------------|
| BMC14557BCP | , ENGRCHGJ14521 | , FMC14013BDR2 | , FP14050BD |
| FP14050BDR2 | , FP14094BD | , FZ14050BD | , FZ14050BDR2 |
| FZ14094BD | , JLC1132F | , JLC1146FEL | , JMC14001BW |
| JMC14051BW | , JMC14066BW | , MC14001BCP | , MC14001BD |
| MC14001BDR2 | , MC14001BDT | , MC14001BDR2 | , MC14001BF |
| MC14001BFEL | , MC14001BFL1 | , MC14001BFL2 | , MC14001BFR1 |
| MC14001BFR2 | , MC14001UBCP | , MC14001UBD | , MC14001UBDR2 |
| MC14007UBCP | , MC14007UBD | , MC14007UBDR2 | , MC14007UBDT |
| MC14007UBFEL | , MC14007UBFEL | , MC14007UBFR1 | , MC14008BCP |
| MC14008BDR2 | , MC14008BF | , MC14008BFR1 | , MC14011BCP |
| MC14011BD | , MC14011BDR2 | , MC14011BDT | , MC14011BDTEL |
| MC14011BDR2 | , MC14011BF | , MC14011BFEL | , MC14011BFL1 |
| MC14011BFL2 | , MC14011BFR1 | , MC14011BFR2 | , MC14011UBCP |
| MC14011UBD | , MC14011UBDR2 | , MC14012BCP | , MC14012BD |
| MC14012BDR2 | , MC14012BF | , MC14012BFEL | , MC14012BFL1 |
| MC14013BCP | , MC14013BD | , MC14013BDR2 | , MC14013BDT |
| MC14013BDR2 | , MC14013BF | , MC14013BFEL | , MC14013BFL1 |
| MC14013BFL2 | , MC14013BFR1 | , MC14013BFR2 | , MC14014BCP |
| MC14014BD | , MC14014BDR2 | , MC14014BF | , MC14014BFEL |
| MC14014BFL1 | , MC14014BFL2 | , MC14014BFR1 | , MC14014BFR2 |
| MC14015BCP | , MC14015BD | , MC14015BDR2 | , MC14015BDT |
| MC14015BF | , MC14015BFEL | , MC14015BFL1 | , MC14015BFL2 |
| MC14015BFR1 | , MC14016BCP | , MC14016BD | , MC14016BDR2 |
| MC14016BF | , MC14016BFEL | , MC14016BFL1 | , MC14016BFR1 |
| MC14016BFR2 | , MC14017BCP | , MC14017BD | , MC14017BDR2 |
| MC14017BF | , MC14017BFEL | , MC14017BFL2 | , MC14017BFR2 |
| MC14018BCP | , MC14018BD | , MC14018BDR2 | , MC14018BF |
| MC14018BFEL | , MC14018BFL2 | , MC14018BFR1 | , MC14020BCP |
| MC14020BD | , MC14020BDR2 | , MC14020BDT | , MC14020BF |
| MC14020BFEL | , MC14020BFL1 | , MC14020BFL2 | , MC14020BFR1 |
| MC14020BFR2 | , MC14021BCP | , MC14021BD | , MC14021BDR2 |
| MC14021BF | , MC14021BFEL | , MC14021BFL1 | , MC14021BFR1 |
| MC14022BCP | , MC14022BD | , MC14022BDR2 | , MC14022BF |
| MC14022BFL2 | , MC14022BFR2 | , MC14023BCP | , MC14023BD |
| MC14023BDR2 | , MC14023BF | , MC14023BFEL | , MC14023BFL1 |
| MC14023BFL2 | , MC14023BFR2 | , MC14024BCP | , MC14024BD |
| MC14024BDR2 | , MC14024BF | , MC14024BFEL | , MC14024BFL1 |
| MC14024BFL2 | , MC14024BFR1 | , MC14024BFR2 | , MC14025BCP |
| MC14025BD | , MC14025BDR2 | , MC14025BF | , MC14025BFEL |
| MC14025BFL1 | , MC14025BFR1 | , MC14027BCP | , MC14027BD |
| MC14027BDR2 | , MC14027BF | , MC14027BFEL | , MC14027BFL1 |
| MC14027BFL2 | , MC14027BFR1 | , MC14028BCP | , MC14028BD |
| MC14028BDR2 | , MC14028BF | , MC14028BFEL | , MC14028BFL1 |
| MC14028BFL2 | , MC14028BFR2 | , MC14029BCP | , MC14029BD |
| MC14029BDR2 | , MC14029BF | , MC14029BFEL | , MC14029BFR2 |
| MC14040BCP | , MC14040BD | , MC14040BDR2 | , MC14040BDT |
| MC14040BF | , MC14040BFEL | , MC14040BFL1 | , MC14040BFL2 |
| MC14040BFR1 | , MC14040BFR2 | , MC14042BCP | , MC14042BD |
| MC14042BDR2 | , MC14042BF | , MC14042BFEL | , MC14042BFL2 |
| MC14042BFR1 | , MC14042BFR2 | , MC14043BCP | , MC14043BD |
| MC14043BDR2 | , MC14043BF | , MC14043BFEL | , MC14043BFL1 |
| MC14043BFR1 | , MC14044BCP | , MC14044BD | , MC14044BDR2 |
| MC14046BCP | , MC14046BDW | , MC14046BDWR2 | , MC14046BF |
| MC14046BFEL | , MC14046BFL1 | , MC14046BFL2 | , MC14046BFR1 |
| MC14046BFR2 | , MC14049BCP | , MC14049BD | , MC14049BDR2 |
| MC14049BF | , MC14049BFL1 | , MC14049UBCP | , MC14049UBD |
| MC14049UBDR2 | , MC14049UBDT | , MC14049UBDTR2 | , MC14049UBF |
| MC14049UBFEL | , MC14049UBFL1 | , MC14049UBFL2 | , MC14049UBFR1 |

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|--------------|-----------------|-----------------|----------------|
| MC14050BCP | , MC14050BD | , MC14050BDR2 | , MC14050BDTEL |
| MC14050BF | , MC14050BFEL | , MC14050BFL1 | , MC14050BFL2 |
| MC14050BFR1 | , MC14050BFR2 | , MC14051BCP | , MC14051BD |
| MC14051BDR2 | , MC14051BDT | , MC14051BDTEL | , MC14051BDTR2 |
| MC14051BF | , MC14051BFEL | , MC14051BFL1 | , MC14051BFL2 |
| MC14051BFR1 | , MC14051BFR2 | , MC14052BCP | , MC14052BD |
| MC14052BDR2 | , MC14052BDT | , MC14052BDTR2 | , MC14052BF |
| MC14052BFEL | , MC14052BFL1 | , MC14052BFL2 | , MC14052BFR1 |
| MC14052BFR2 | , MC14053BCP | , MC14053BD | , MC14053BDR2 |
| MC14053BDT | , MC14053BDTEL | , MC14053BDTR2 | , MC14053BF |
| MC14053BFEL | , MC14053BFL1 | , MC14053BFL2 | , MC14053BFR1 |
| MC14053BFR2 | , MC14060BCP | , MC14060BD | , MC14060BDR2 |
| MC14060BDT | , MC14060BDTR2 | , MC14060BF | , MC14060BFEL |
| MC14060BFL1 | , MC14060BFR2 | , MC14066BCP | , MC14066BD |
| MC14066BDR2 | , MC14066BDT | , MC14066BDTEL | , MC14066BDTR2 |
| MC14066BF | , MC14066BFEL | , MC14066BFL1 | , MC14066BFL2 |
| MC14066BFR1 | , MC14066BFR2 | , MC14067BCP | , MC14067BDW |
| MC14067BDWR2 | , MC14069UBCP | , MC14069UBD | , MC14069UBDR2 |
| MC14069UBDT | , MC14069UBDTEL | , MC14069UBDTR2 | , MC14069UBF |
| MC14069UBFEL | , MC14069UBFL1 | , MC14069UBFL2 | , MC14069UBFR1 |
| MC14069UBFR2 | , MC14070BCP | , MC14070BD | , MC14070BDR2 |
| MC14070BF | , MC14070BFEL | , MC14070BFL1 | , MC14070BFL2 |
| MC14070BFR1 | , MC14070BFR2 | , MC14071BCP | , MC14071BD |
| MC14071BDR2 | , MC14071BDT | , MC14071BDTR2 | , MC14071BF |
| MC14071BFEL | , MC14071BFL1 | , MC14071BFL2 | , MC14071BFR1 |
| MC14071BFR2 | , MC14073BCP | , MC14073BD | , MC14073BDR2 |
| MC14073BF | , MC14073BFEL | , MC14073BFL1 | , MC14073BFR1 |
| MC14076BCP | , MC14076BD | , MC14076BDR2 | , MC14077BCP |
| MC14077BD | , MC14077BDR2 | , MC14077BF | , MC14077BFEL |
| MC14077BFR1 | , MC14081BCP | , MC14081BD | , MC14081BDR2 |
| MC14081BDT | , MC14081BDTR2 | , MC14081BF | , MC14081BFEL |
| MC14081BFL1 | , MC14081BFL2 | , MC14081BFR1 | , MC14081BFR2 |
| MC14082BCP | , MC14082BD | , MC14082BDR2 | , MC14082BF |
| MC14082BFR1 | , MC14082BFR2 | , MC14093BCP | , MC14093BD |
| MC14093BDR2 | , MC14093BDT | , MC14093BDTEL | , MC14093BDTR2 |
| MC14093BF | , MC14093BFEL | , MC14093BFL1 | , MC14093BFR1 |
| MC14093BFR2 | , MC14094BCP | , MC14094BD | , MC14094BDR2 |
| MC14094BDT | , MC14094BDTR2 | , MC14094BF | , MC14094BFEL |
| MC14094BFL1 | , MC14094BFL2 | , MC14094BFR1 | , MC14094BFR2 |
| MC14099BCP | , MC14099BDW | , MC14099BDWR2 | , MC14099BF |
| MC14099BFEL | , MC14099BFL1 | , MC14099BFL2 | , MC14099BFR1 |
| MC14099BFR2 | , MC14106BCP | , MC14106BD | , MC14106BDR2 |
| MC14106BDT | , MC14106BDTR2 | , MC14174BCP | , MC14174BD |
| MC14174BDR2 | , MC14174BF | , MC14174BFEL | , MC14174BFR1 |
| MC14175BCP | , MC14175BD | , MC14175BDR2 | , MC14175BF |
| MC14175BFEL | , MC14175BFL1 | , MC14175BFR2 | , MC14490DW |
| MC14490DWR2 | , MC14490F | , MC14490FEL | , MC14490FL1 |
| MC14490FR1 | , MC14490P | , MC14503BCP | , MC14503BD |
| MC14503BDR2 | , MC14503BF | , MC14503BFEL | , MC14503BFL2 |
| MC14503BFR1 | , MC14503BFR2 | , MC14504BCP | , MC14504BD |
| MC14504BDR2 | , MC14504BDT | , MC14504BF | , MC14504BFEL |

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|--------------|----------------|----------------|----------------|
| MC14504BFL1 | , MC14504BFR1 | , MC14504BFR2 | , MC14511BCP |
| MC14511BD | , MC14511BDW | , MC14511BDWR2 | , MC14511BF |
| MC14511BFEL | , MC14511BFR1 | , MC14512BCP | , MC14512BD |
| MC14512BDR2 | , MC14512BF | , MC14512BFEL | , MC14512BFL1 |
| MC14512BFR1 | , MC14512BFR2 | , MC14513BCP | , MC14514BCP |
| MC14514BDW | , MC14514BDWR2 | , MC14515BCP | , MC14515BDW |
| MC14515BDWR2 | , MC14516BCP | , MC14516BD | , MC14516BDR2 |
| MC14516BF | , MC14516BFEL | , MC14516BFL1 | , MC14516BFR1 |
| MC14517BCP | , MC14517BDW | , MC14517BDWR2 | , MC14518BCP |
| MC14518BDW | , MC14518BDWR2 | , MC14518BF | , MC14518BFEL |
| MC14518BFL1 | , MC14518BFR1 | , MC14518BFR2 | , MC14520BCP |
| MC14520BDW | , MC14520BDWR2 | , MC14520BF | , MC14520BFEL |
| MC14520BFL1 | , MC14520BFL2 | , MC14520BFR1 | , MC14520BFR2 |
| MC14521BCP | , MC14521BD | , MC14521BDR2 | , MC14521BF |
| MC14521BFEL | , MC14521BFL1 | , MC14526BCP | , MC14526BDW |
| MC14526BDWR2 | , MC14526BF | , MC14526BFL1 | , MC14526BFR1 |
| MC14526BFR2 | , MC14528BCP | , MC14528BD | , MC14528BDR2 |
| MC14528BF | , MC14528BFEL | , MC14528BFL2 | , MC14528BFR1 |
| MC14532BCP | , MC14532BD | , MC14532BDR2 | , MC14532BF |
| MC14532BFEL | , MC14532BFL1 | , MC14532BFR1 | , MC14532BFR2 |
| MC14536BCP | , MC14536BDW | , MC14536BDWR2 | , MC14536BF |
| MC14536BFL1 | , MC14536BFL2 | , MC14538BCP | , MC14538BD |
| MC14538BDR2 | , MC14538BDT | , MC14538BDTR2 | , MC14538BDW |
| MC14538BDWR2 | , MC14538BF | , MC14538BFEL | , MC14538BFL1 |
| MC14538BFL2 | , MC14538BFR1 | , MC14538BFR2 | , MC14541BCP |
| MC14541BD | , MC14541BDR2 | , MC14541BDT | , MC14541BDTR2 |
| MC14541BF | , MC14541BFEL | , MC14541BFL1 | , MC14541BFL2 |
| MC14541BFR1 | , MC14541BFR2 | , MC14543BCP | , MC14543BD |
| MC14543BDR2 | , MC14543BF | , MC14543BFEL | , MC14543BFL1 |
| MC14543BFR1 | , MC14543BFR2 | , MC14549BCP | , MC14549BDWR2 |
| MC14551BCP | , MC14551BD | , MC14551BDR2 | , MC14551BF |
| MC14551BFL2 | , MC14553BCP | , MC14553BDW | , MC14555BCP |
| MC14555BD | , MC14555BDR2 | , MC14555BF | , MC14555BFEL |
| MC14555BFL1 | , MC14555BFR1 | , MC14556BCP | , MC14556BD |
| MC14556BDR2 | , MC14556BF | , MC14556BFEL | , MC14556BFR1 |
| MC14556BFR2 | , MC14557BCP | , MC14557BDW | , MC14557BDWR2 |
| MC14557BF | , MC14557BFEL | , MC14557BFL1 | , MC14559BCP |
| MC14559BDWR2 | , MC14560BCP | , MC14562BCP | , MC14569BCP |
| MC14569BDT | , MC14569BDW | , MC14569BDWR2 | , MC14572UBCP |
| MC14572UBD | , MC14572UBDR2 | , MC14572UBF | , MC14572UBFEL |
| MC14572UBFR1 | , MC14584BCP | , MC14584BD | , MC14584BDR2 |
| MC14584BDT | , MC14584BDTEL | , MC14584BF | , MC14584BFEL |
| MC14584BFL1 | , MC14584BFL2 | , MC14584BFR1 | , MC14584BFR2 |
| MC14585BCP | , MC14585BD | , MC14585BDR2 | , MC14585BF |
| MC14585BFR1 | , MC14598BCP | , MCW14001B | , MCW14007UB |
| MCW14011B | , MCW14013B | , MCW14015B | , MCW14044B |
| MCW14046B | , MCW14049B | , MCW14049UB | , MCW14050B |
| MCW14051B | , MCW14052B | , MCW14053B | , MCW14060B |
| MCW14066B | , MCW14067B | , MCW14070B | , MCW14071B |
| MCW14076B | , MCW14081B | , MCW14093B | , MCW14094B |
| MCW14106B | , MCW14175B | , MCW14490 | , MCW14504B |

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|---------------|-----------------|-----------------|-----------------|
| MCW14515B | , MCW14536B | , MCW14538B | , MCW14541B |
| MCW14549B | , MCW14555B | , MCW14557B | , MCW14559B |
| MCW14560B | , MCW14572UB | , MCWC88E | , PMC14011BCP |
| PMC14011BD | , PMC14013BCP | , PMC14013BD | , PMC14017BCP |
| PMC14051BCP | , PMC14051BD | , PMC14052BCP | , PMC14052BD |
| PMC14053BCP | , PMC14053BD | , PMC14060BCP | , PMC14066BCP |
| PMC14066BD | , PMC14081BCP | , PMC14093BCP | , PMC14094BCP |
| PMC14538BCP | , PMC14538BD | , PMC14541BCP | , PMC14551BCP |
| PMC14551BD | , SA14011BCP | , SA14011BD | , SA14011BDR2 |
| SA14011BDT | , SA14011BDTR2 | , SA14013BCP | , SA14013BD |
| SA14013BDR2 | , SA14013BDT | , SA14013BDTR2 | , SA14021BCP |
| SA14021BD | , SA14021BDR2 | , SA14023BCP | , SA14023BD |
| SA14023BDR2 | , SA14040BCL | , SA14040BCP | , SA14040BD |
| SA14040BDR2 | , SA14040BDT | , SA14040BDTR2 | , SA14050BCP |
| SA14050BD | , SA14050BDR2 | , SA14051BCP | , SA14051BD |
| SA14051BDR2 | , SA14051BDT | , SA14051BDTR2 | , SA14052BCP |
| SA14052BD | , SA14052BDR2 | , SA14052BDT | , SA14052BDTR2 |
| SA14053BCP | , SA14053BD | , SA14053BDR2 | , SA14053BDT |
| SA14053BDTR2 | , SA14060BCP | , SA14060BD | , SA14060BDR2 |
| SA14060BDT | , SA14060BDTR2 | , SA14066BCP | , SA14066BD |
| SA14066BDR2 | , SA14066BDT | , SA14066BDTR2 | , SA14069UBCP |
| SA14069UBD | , SA14069UBDR2 | , SA14069UBDT | , SA14069UBDTR2 |
| SA14073BCP | , SA14073BD | , SA14073BDR2 | , SA14081BCP |
| SA14081BD | , SA14081BDR2 | , SA14081BDT | , SA14081BDTR2 |
| SA14093BCP | , SA14093BD | , SA14093BDR2 | , SA14093BDT |
| SA14093BDTR2 | , SA14094BCP | , SA14094BD | , SA14094BDR2 |
| SA14094BDT | , SA14094BDTR2 | , SA14099BCP | , SA14099BDW |
| SA14099BDWR2 | , SA14175BCP | , SA14175BD | , SA14175BDR2 |
| SA14541BCP | , SA14541BD | , SA14541BDR2 | , SA14541BDT |
| SA14541BDTR2 | , SA14551BCP | , SA14551BD | , SA14551BDR2 |
| SA14584BCL | , SA14584BCP | , SA14584BD | , SA14584BDR2 |
| SA14584BDT | , SA14584BDTR2 | , TSC14051BCP | , TSC14051BDT |
| TSC14051BDTEL | | | |
| TSC14051BDTR2 | , TSC14051BF | , TSC14051BFEL | , TSC14051BFL1 |
| TSC14051BFL2 | , TSC14051BFR1 | , TSC14051BFR2 | , TSC14052BCP |
| TSC14052BDT | , TSC14052BDTEL | , TSC14052BDTR2 | , TSC14052BF |
| TSC14052BFEL | , TSC14052BFL1 | , TSC14052BFL2 | , TSC14052BFR1 |
| TSC14052BFR2 | , TSC14053BCP | , TSC14053BD | , TSC14053BDR2 |
| TSC14053BDT | , TSC14053BDTEL | , TSC14053BDTR2 | , TSC14053BF |
| TSC14053BFEL | , TSC14053BFL1 | , TSC14053BFL2 | , TSC14053BFR1 |
| TSC14053BFR2 | , TSC14066BCP | , TSC14066BDT | , TSC14066BDTR2 |
| TSC14066BF | , TSC14066BFEL | , TSC14066BFL1 | , TSC14066BFL2 |
| TSC14066BFR1 | , TSC14066BFR2 | | |