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**PRODUCT BULLETIN**  
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**17-NOV-2004**

**SUBJECT: ON Semiconductor Product Bulletin #13822**

**TITLE: ESD Enhancement for Select ECLinPS Devices**

**EFFECTIVE DATE: 17-Nov-2004**

**AFFECTED PRODUCT DIVISION: ECL Products**

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor sales office or Tim Gurnett <R13617@onsemi.com>

**NOTIFICATION TYPE:**

ON Semiconductor considers this change approved unless specific conditions of acceptance are provided in writing. To do so, contact your local ON Semiconductor sales office.

**DESCRIPTION AND PURPOSE:**

ON Semiconductor is pleased to announce an increase in ESD protection for devices listed below from the ECLinPS product family. ESD protection on these devices now exceeds 2000 Volts Human Body Model (HBM), 200 Volts Machine Model (MM), and 2000 Volts Charged Device Model (CDM). Previous ESD protection circuitry on these devices was less than 1000 Volts HBM, and less than 100 Volts MM.

There is no difference in electrical performance or functionality of these devices per data sheet parameters.

**AFFECTED DEVICE LIST:**

**PART**

MC100E404FN  
MC100E404FNR2  
MC100E404FNR2G  
MC100E431FN  
MC100E431FNR2  
MC100E452FN  
MC100E452FNR2  
MC100E452FNR2G  
MC10E150FN  
MC10E150FNR2  
MC10E157FN  
MC10E157FNG  
MC10E157FNR2  
MC10E157FNR2G  
MC10E167FN  
MC10E167FNR2  
MC10E175FN  
MC10E175FNR2



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MC10E404FN  
MC10E404FNG  
MC10E404FNR2  
MC10E431FN  
MC10E431FNR2  
MC10E452FN  
MC10E452FNR2  
MCW100E431  
MCW100E452  
MCW10E431  
MCW10E452