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**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION**Generic Copy

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**23-May-2007****SUBJECT: ON Semiconductor Final Product/Process Change Notification #16016****TITLE: Redesign for MC78xx Standard Voltage Regulators****PROPOSED FIRST SHIP DATE: 23-Jul-2007****AFFECTED CHANGE CATEGORY(S): Wafer Fab Process****AFFECTED PRODUCT DIVISION(S): Analog Products Division****FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**Contact your local ON Semiconductor Sales Office or Alan Garlington<[alan.garlington@onsemi.com](mailto:alan.garlington@onsemi.com)>**SAMPLES:**Contact your local ON Semiconductor Sales Office or Jaroslav Supina<[Jaroslav.Supina@onsemi.com](mailto:Jaroslav.Supina@onsemi.com)>**ADDITIONAL RELIABILITY DATA:** AvailableContact your local ON Semiconductor Sales Office or Matt Kas<[Matt.Kas@onsemi.com](mailto:Matt.Kas@onsemi.com)>**NOTIFICATION TYPE:**

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 60 days prior to implementation 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 is Final customer notification of the redesign of the MC78xx family of standard voltage regulators. Only those part numbers listed below are included in this change. There will no change to the data sheet, device functionalities or device parameters as a result of this change. A modified process will be qualified and implemented in order to utilize smaller die geometries. The wafer fab location is the ON Semiconductor wafer fab located at Roznov, Czech Republic.

Customer Samples are available upon request.

Customer applications vary widely in usage for Integrated Circuit components. It is possible that an application may utilize non-specified properties of the device. It is advisable to check specific applications for:

1. Energy dissipation capability during specific transients
2. Loop stability in amplifier, comparator and regulator circuits

**Final Product/Process Change Notification #16016****RELIABILITY DATA SUMMARY:****Reliability Test Results:**

Qualification vehicle to be used: MC7805BT

TEST -----	CONDITIONS -----	Time -----	Sample Size -----	# of Lots -----	Results -----
HTOL	Ta=125C	504, 1008 Hrs	84	3	0/252
AutoClave	121 C; 100% RH 15 PSIG	96 Hrs	84	3	0/252
HAST	Ta=130C; 85% RH 18.8 PSIG	96 Hrs	84	3	0/252
ESD	HBM and MM	2Kv and 200v Min	27	1	Pass
LU	Latch Up		6	1	Pass

**ELECTRICAL CHARACTERISTIC SUMMARY:**

No changes in electrical characterization; all product performance meets current datasheet specifications.

**CHANGED PART IDENTIFICATION:**

Part numbers affected by this change will have traceability date codes not prior to ww 30-2007.

**Final Product/Process Change Notification #16016****AFFECTED DEVICE LIST**

MC7805BD2T  
MC7805BD2TG  
MC7805BD2TR4  
MC7805BD2TR4G  
MC7805BDT  
MC7805BDTG  
MC7805BDTRK  
MC7805BDTRKG  
MC7805BT  
MC7805BTG  
MC7805CD2T  
MC7805CD2TG  
MC7805CD2TR4  
MC7805CD2TR4G  
MC7805CDT  
MC7805CDTG  
MC7805CDTRK  
MC7805CDTRKG  
MC7805CT  
MC7805CTG  
MC7806BD2T  
MC7806BD2TG  
MC7806BD2TR4  
MC7806BD2TR4G  
MC7806BT  
MC7806BTG  
MC7806CT  
MC7806CTG  
MC7808BD2T  
MC7808BD2TG  
MC7808BD2TR4  
MC7808BD2TR4G  
MC7808BDT  
MC7808BDTG  
MC7808BDTRK  
MC7808BDTRKG  
MC7808BT  
MC7808BTG  
MC7808CD2T  
MC7808CD2TG  
MC7808CD2TR4  
MC7808CD2TR4G  
MC7808CDT  
MC7808CDTG  
MC7808CDTRK  
MC7808CDTRKG  
MC7808CDTT5  
MC7808CDTT5G  
MC7808CT  
MC7808CTG  
MC7809BT  
MC7809BTG  
MC7809CD2T

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MC7809CD2TG  
MC7809CD2TR4  
MC7809CD2TR4G  
MC7809CT  
MC7809CTG  
MC7812BD2T  
MC7812BD2TG  
MC7812BD2TR4  
MC7812BD2TR4G  
MC7812BDT  
MC7812BDTG  
MC7812BDTRK  
MC7812BDTRKG  
MC7812BT  
MC7812BTG  
MC7812CD2T  
MC7812CD2TG  
MC7812CD2TR4  
MC7812CD2TR4G  
MC7812CDT  
MC7812CDTG  
MC7812CDTRK  
MC7812CDTRKG  
MC7812CT  
MC7812CTG  
MC7815BD2T  
MC7815BD2TG  
MC7815BD2TR4  
MC7815BD2TR4G  
MC7815BDT  
MC7815BDTG  
MC7815BDTRK  
MC7815BDTRKG  
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MC7815CDT  
MC7815CDTG  
MC7815CDTRK  
MC7815CDTRKG  
MC7815CT  
MC7815CTG  
MC7818BT  
MC7818BTG  
MC7818CD2T  
MC7818CD2TR4  
MC7818CD2TR4G  
MC7818CT  
MC7818CTG