ON Semiconductor

INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION
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21-Feb-2007

SUBJECT: ON Semiconductor Initial Product/Process Change Notification #15731

TITLE: Redesign for MC78xx Standard Voltage Regulators

PROPOSED FIRST SHIP DATE: 23 June 2007

AFFECTED CHANGE CATEGORY: Wafer Fab Process

AFFECTED PRODUCT DIVISION: Analog Products Division

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:
Contact your local ON Semiconductor Sales Office or Alan Garlington <alan.garlington@onsemi.com>

NOTIFICATION TYPE:

Initial Product/Process Change Notification (IPCN)

First change notification sent to customers. IPCNs are issued at least 120 days prior to implementation of the change. An IPCN 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 IPCN 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:

This is an initial customer notification of the planned redesign of the MC78xx family of standard voltage regulators. Only those part numbers listed below are included in this change. There will be 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 will be available at the issuance of the Final PCN.

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QUALIFICATION PLAN:

Qualification vehicle to be used: MC7805BT

TEST	CONDITIONS	Time	Sample Size	# of Lots	Total Qty
HTOL	Ta=125C	504, 1008 Hrs	77	3	231
AutoClave	121 C; 100% RH 15 PSIG	96 Hrs	77	3	231
HAST	Ta=130C; 85% RH 18.8 PSIG	96 Hrs	77	3	231
ESD	HBM and MM		27	1	27
LU	Latch Up		6	1	6
ED	Full Temperature Electrical Distribution		30	3	90

AFFECTED DEVICE LIST:

PART

MC7805BD2T
MC7805BD2TG
MC7805BD2TR4
MC7805BD2TR4G
MC7805BDT
MC7805BDTG
MC7805BDTRK
MC7805BDTRKG
MC7805BT
MC7805BTG
MC7805CD2T
MC7805CD2TG
MC7805CD2TR4
MC7805CD2TR4G
MC7805CDT
MC7805CDTG
MC7805CDTRK
MC7805CDTRKG
MC7805CT
MC7805CTG
MC7806BD2T
MC7806BD2TG
MC7806BD2TR4

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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
MC7809CD2TG
MC7809CD2TR4
MC7809CD2TR4G
MC7809CT
MC7809CTG
MC7812BD2T
MC7812BD2TG
MC7812BD2TR4
MC7812BD2TR4G
MC7812BDT
MC7812BDTG
MC7812BDTRK
MC7812BDTRKG
MC7812BT
MC7812BTG
MC7812CD2T

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MC7812CD2TG
MC7812CD2TR4
MC7812CD2TR4G
MC7812CDT
MC7812CDTG
MC7812CDTRK
MC7812CDTRKG
MC7812CT
MC7812CTG
MC7815BD2T
MC7815BD2TG
MC7815BD2TR4
MC7815BD2TR4G
MC7815BDT
MC7815BDTG
MC7815BDTRK
MC7815BDTRKG
MC7815BT
MC7815BTG
MC7815CD2T
MC7815CD2TG
MC7815CD2TR4
MC7815CD2TR4G
MC7815CDT
MC7815CDTG
MC7815CDTRK
MC7815CDTRKG
MC7815CT
MC7815CTG
MC7818BT
MC7818BTG
MC7818CD2T
MC7818CD2TR4
MC7818CD2TR4G
MC7818CT
MC7818CTG