



INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION

Generic Copy

12 Feb 2010

SUBJECT: ON Semiconductor Initial Product/Process Change Notification # 16396

TITLE: IC D2PAK 3 AND 5 LEAD CHANGE TO SINGLE GAGE THICKNESS HEAT SINK

PROPOSED FIRST SHIP DATE: 12 Jul 2010

AFFECTED CHANGE CATEGORY: Package Change

AFFECTED PRODUCT DIVISION: Standard and LDO Regulators – Switching Regulators

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 90 days prior to implementation of the change.

DESCRIPTION AND PURPOSE:

This is an advance notice that the D2Pak 3 and 5 lead product lines for IC products running in Seremban, Malaysia will be qualified for a single gage thickness heat sink. The current heat sink has a Thickness of .050 inch (1.265 mm). The future heat sink will have a thickness of .020 inch (.508 mm). No other dimensional changes are being made. Full reliability and characterization will be performed for this change prior to publishing the Final Product Change Notice to customers. There will be no change to the devices data sheet or functionalities due to this change.

Product samples may be requested after the Final PCN is issued in the mid-April timeframe.



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QUALIFICATION PLAN:

Qualification Vehicles chosen for this qualification:

MC33167 5 Ld D2 Pak

NCV4275 5 Ld D2 Pak

NCV317B 3 Ld D2 Pak

Testing to be performed:

HTOL High Temp Op Life Ta = 125 C 1000 Hr 3 Lots

Preconditioning for MSL-1 (PC)

PC – HAST Highly Accel Stress Testing 96 Hrs 3 Lots

PC – Temp Cycle -65 to +150C 1000 cyc 3 Lots

PC – Auto Clave 131C – 85%RH – 96 Hrs 3 Lots

HTSL - High Temp Storage Life Ta=150C 1008 Hrs 3 Lots

SD – Solderability

DPA per AEC-Q100 Automotive specification

Full temperature electrical characterization



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AFFECTED DEVICE LIST:

PART

LM2575D2T-012G	MC7805ABD2TR4G
LM2575D2T-015G	MC7805ACD2TG
LM2575D2T-12R4G	MC7805ACD2TR4
LM2575D2T-15R4G	MC7805ACD2TR4G
LM2575D2T-3.3G	MC7805BD2TG
LM2575D2T-3.3R4G	MC7805BD2TR4G
LM2575D2T-5G	MC7805CD2TG
LM2575D2T-5R4G	MC7805CD2TR4G
LM2575D2T-ADJG	MC7806BD2TG
LM2575D2T-ADJR4G	MC7806BD2TR4G
LM2576D2T-005G	MC7808ABD2T
LM2576D2T-012G	MC7808ABD2TG
LM2576D2T-15G	MC7808ABD2TR4G
LM2576D2T-3.3G	MC7808BD2TG
LM2576D2T-ADJG	MC7808BD2TR4G
LM2576D2T-ADJR4G	MC7808CD2TG
LM2576D2TR4-012G	MC7808CD2TR4G
LM2576D2TR4-3.3G	MC7809CD2TG
LM2576D2TR4-5G	MC7809CD2TR4G
LM2595DSADJG	MC7812ABD2TG
LM2595DSADJR4G	MC7812ABD2TR4G
LM2596DSADJG	MC7812ACD2TG
LM2596DSADJR4G	MC7812ACD2TR4G
LM2931ACD2TR4	MC7812BD2TG
LM2931ACD2TR4G	MC7812BD2TR4G
LM2931AD2T-5.0G	MC7812CD2TG
LM2931AD2T-5R4G	MC7812CD2TR4G
LM2931CD2TG	MC7815ABD2TG
LM2931CD2TR4G	MC7815ABD2TR4
LM2931D2T-5.0G	MC7815ABD2TR4G
LM2931D2T-5.0R4G	MC7815ACD2TG
LM317BD2TG	MC7815BD2TG
LM317BD2TR4	MC7815BD2TR4G
LM317BD2TR4G	MC7815CD2TG
LM317D2TG	MC7815CD2TR4G
LM317D2TGH	MC7818CD2TR4G
LM317D2TR4	MC7824BD2TG
LM317D2TR4G	MC7824BD2TR4G
LM337BD2TG	MC7824CD2TG
LM337BD2TR4G	MC7824CD2TR4G
LM337D2TG	MC7905ACD2TG
LM337D2TR4G	MC7905ACD2TR4G
MC33166D2TG	MC7905BD2TG
MC33166D2TR4G	MC7905BD2TR4G
MC33167D2TG	MC7905CD2TG
MC33167D2TR4G	MC7905CD2TR4G
MC34166D2TG	MC7906CD2TG
MC34166D2TR4G	MC7908CD2TG
MC34167D2TG	MC7908CD2TR4
MC34167D2TR4G	MC7908CD2TR4G
MC7805ABD2TG	MC7912ACD2TG
MC7805ABD2TR4	MC7912ACD2TR4G



MC7912BD2TG
MC7912BD2TR4G
MC7912CD2TG
MC7912CD2TR4G
MC7915ACD2TG
MC7915BD2TG
MC7915CD2TG
MC7915CD2TR4G
MC7924CD2TG
NCP565D2T12G
NCP565D2T12R4G
NCP565D2T33G
NCP565D2T33R4G
NCP565D2TG
NCP565D2TR4G
NCP5662DS12R4G
NCP5662DS15R4G
NCP5662DS18R4G
NCP5662DS25R4G
NCP5662DS28R4G
NCP5662DS30R4G
NCP5662DS33R4G
NCP5662DSADJR4G
NCP5663DS15R4G
NCP5663DS18G
NCP5663DS18R4G
NCP5663DSADJR4G
NCP5666DS25R4G
NCP5666DS50R4G
NCP5667DS50R4G
NCP630AD2TG
NCP630AD2TR4G
NCP630GD2TG
NCP630GD2TR4
NCP630GD2TR4G
NCP631GD2T
NCP631GD2TG
NCP631GD2TR4G
NCV2575D2T-12G
NCV2575D2T-12R4G
NCV2575D2T-5G
NCV2575D2T-5R4G
NCV2575D2T-ADJG
NCV2575D2TADJR4G
NCV2931D2T-5.0R4
NCV2931D2T5.0R4G
NCV317BD2TG
NCV317BD2TR4G
NCV4274ADS50G
NCV4274ADS50R4G
NCV4274DS50G
NCV4274DS50R4G
NCV4275ADS33G
NCV4275ADS33R4G
NCV4275ADS50G
NCV4275ADS50R4G
NCV4275DSG
NCV4275DSR4
NCV4275DSR4G
NCV4276ADS50G
NCV4276ADS50R4G
NCV4276ADSADJG
NCV4276ADSADJR4G
NCV4276DS18G
NCV4276DS18R4G
NCV4276DS25G
NCV4276DS25R4G
NCV4276DS33G
NCV4276DS33R4G
NCV4276DS50G
NCV4276DS50R4G
NCV4276DSADJG
NCV4276DSADJR4G
NCV565D2TG
NCV565D2TR4G
NCV5662DS15R4G
NCV5662DSADJR4G
NCV5663DS15R4G
NCV5663DSADJR4G
NCV7805ABD2TR4G
NCV7805BD2T
NCV7805BD2TG
NCV7805BD2TR4
NCV7805BD2TR4G
NCV7808BD2TR4
NCV7808BD2TR4G
NCV7812BD2T
NCV7812BD2TR4
NCV7812BD2TR4G
NCV8575HDS50G
NCV8575HDS50R4G
NCV8665DS50G
NCV8665DS50R4G
NCV8674DS120G
NCV8674DS120R4G
NCV8674DS50G
NCV8674DS50R4G
NCV8675DS33G
NCV8675DS33R4G
NCV8675DS50G
NCV8675DS50R4G
SC4275DSR4G
SC79021D2TR4