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**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION**

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**03 Jan 2008**

**SUBJECT: ON Semiconductor Final Product/Process Change Notification #16089**

**TITLE: DPAK Package Mold Compound Change – Analog**

**PROPOSED FIRST SHIP DATE: 03 Apr 2008**

**AFFECTED CHANGE CATEGORY(S): Assembly Process**

**AFFECTED PRODUCT DIVISION(S): Analog Products**

**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

**ADDITIONAL RELIABILITY DATA:** Available

Contact 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 90 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 a Final Product Change Notice for a Mold Compound change previously announced in IPCN # 16041 issued on 30 August 2007. This FPCN is being issued only for Analog products in the Dpak style package. All Qualification and Reliability testing has been completed and has passed all established criteria. A separate FPCN will be issued for the Discrete products listed in IPCN # 16041 once testing has completed for those products.

As a part of ON Semiconductors continuous improvement programs, the mold compound for the Dpak package assembled at the ON Semiconductor factory located at Seremban, Malaysia, will be changing. The same supplier of the existing compound will be used but the formulation will be modified for improved reliability in terms of moisture testing and delamination (SAT) performance.

**Final Product/Process Change Notification # 16089****RELIABILITY DATA SUMMARY:****Reliability Test Results: MC78M18CDT – 3 separate assembly lots**

<b>Test</b>	<b>Conditions</b>	<b>Results</b>
High Temp Storage Life	Ta = 150C; T = 500, 1000 Hrs	0/252
High Temp Operating Life	Ta = 125C; T = 504, 1008 Hrs	0/252
Scanning Acoustic Tomography (SAT)	MSL1 – 260C Preconditioning	0/30 Pass

**Reliability Test Results: MC78M05ACDTRKG – 3 separate assembly lots**

<b>Test</b>	<b>Conditions</b>	<b>Results</b>
High Temp Storage Life	Ta = 150C; T = 500, 1000 Hrs	0/252
High Temp Operating Life	Ta = 125C; T = 504, 1008 Hrs	0/252
Scanning Acoustic Tomography (SAT)	MSL1 – 260C Preconditioning	0/30 Pass

**ELECTRICAL CHARACTERISTIC SUMMARY:**

No changes in electrical parameter distributions. This change will not result in any change to data sheet limits nor device performance.

**CHANGED PART IDENTIFICATION:**

Parts with the new mold compound can be identified by assembly lot date codes. Change will not occur prior to work week – 14, 2008.



**Final Product/Process Change Notification #16089**

**AFFECTED DEVICE LIST**

**PART**

CS8182DTG	LP2950CDT-5.0RKG	MC7808BDTRK
CS8182DTRKG	MC33269DT	MC7808BDTRKG
JCP78M05CDTRK	MC33269DT-012	MC7808CDTG
JCP78M05CDTRKG	MC33269DT-012G	MC7808CDTRK
LM2931ADT-5.0	MC33269DT-3.3	MC7808CDTRKG
LM2931ADT-5.0G	MC33269DT-3.3G	MC7808CDTT5G
LM2931ADT-5.0RK	MC33269DT-5.0	MC7812BDT
LM2931ADT-5.0RKG	MC33269DT-5.0G	MC7812BDTG
LM2931DT-5.0	MC33269DTG	MC7812BDTRK
LM2931DT-5.0G	MC33269DTRK	MC7812BDTRKG
LM317MABDT	MC33269DTRK-012	MC7812CDT
LM317MABDTG	MC33269DTRK-012G	MC7812CDTG
LM317MABDTRK	MC33269DTRK-3.3	MC7812CDTRK
LM317MABDTRKG	MC33269DTRK-3.3G	MC7812CDTRKG
LM317MADTRK	MC33269DTRK-5.0	MC7815BDT
LM317MADTRKG	MC33269DTRK-5.0G	MC7815BDTG
LM317MBDT	MC33269DTRKG	MC7815BDTRK
LM317MBDTG	MC33275DT-2.5	MC7815BDTRKG
LM317MBDTRK	MC33275DT-2.5G	MC7815CDT
LM317MBDTRKG	MC33275DT-2.5RK	MC7815CDTG
LM317MDT	MC33275DT-2.5RKG	MC7815CDTRK
LM317MDTG	MC33275DT-3.0	MC7815CDTRKG
LM317MDTRK	MC33275DT-3.0G	MC78M05ABDT
LM317MDTRKG	MC33275DT-3.0RK	MC78M05ABDTG
LP2950ACDT-3.0	MC33275DT-3.0RKG	MC78M05ABDTRK
LP2950ACDT-3.0G	MC33275DT-3.3	MC78M05ABDTRKG
LP2950ACDT-3.0RK	MC33275DT-3.3G	MC78M05ACDT
LP2950ACDT-3.3	MC33275DT-3.3RK	MC78M05ACDTG
LP2950ACDT-3.3RG	MC33275DT-3.3RKG	MC78M05ACDTRK
LP2950ACDT-3.3RK	MC33275DT-5.0G	MC78M05ACDTRKG
LP2950ACDT-3RKG	MC33275DT-5.0RK	MC78M05BDT
LP2950ACDT-5.0	MC33275DT-5.0RKG	MC78M05BDTG
LP2950ACDT-5.0G	MC34268DT	MC78M05BDTRK
LP2950ACDT-5.0RK	MC34268DTG	MC78M05BDTRKG
LP2950ACDT-5RKG	MC34268DTRK	MC78M05BDTT5G
LP2950CDT-3.0	MC34268DTRKG	MC78M05CDT
LP2950CDT-3.0G	MC7805BDT	MC78M05CDTG
LP2950CDT-3.0RK	MC7805BDTG	MC78M05CDTRK
LP2950CDT-3.0RKG	MC7805BDTRK	MC78M05CDTRKG
LP2950CDT-3.3	MC7805BDTRKG	MC78M05CDTT5
LP2950CDT-3.3G	MC7805CDT	MC78M05CDTT5G
LP2950CDT-3.3RK	MC7805CDTG	MC78M06CDTG
LP2950CDT-3.3RKG	MC7805CDTRK	MC78M06CDTRK
LP2950CDT-5.0	MC7805CDTRKG	MC78M06CDTRKG
LP2950CDT-5.0G	MC7808BDT	MC78M08ABDT
LP2950CDT-5.0RK	MC7808BDTG	MC78M08ABDTG



MC78M08ABDTRK	MC78M18CDTG	NCP1117DT25
MC78M08ABDTRKG	MC78M18CDTRK	NCP1117DT25G
MC78M08ACDT	MC78M18CDTRKG	NCP1117DT25RK
MC78M08ACDTG	MC79M05BDT	NCP1117DT25RKG
MC78M08ACDTRK	MC79M05BDTG	NCP1117DT25T5
MC78M08ACDTRKG	MC79M05BDTRK	NCP1117DT25T5G
MC78M08BDT	MC79M05BDTRKG	NCP1117DT285
MC78M08BDTG	MC79M05CDT	NCP1117DT285G
MC78M08BDTRK	MC79M05CDTG	NCP1117DT285RK
MC78M08BDTRKG	MC79M05CDTRK	NCP1117DT285RKG
MC78M08CDT	MC79M05CDTRKG	NCP1117DT33
MC78M08CDTG	MC79M08BDT	NCP1117DT33G
MC78M08CDTRK	MC79M08BDTG	NCP1117DT33RK
MC78M08CDTRKG	MC79M08BDTRK	NCP1117DT33RKG
MC78M09BDTG	MC79M08BDTRKG	NCP1117DT33T5
MC78M09BDTRK	MC79M08CDT	NCP1117DT33T5G
MC78M09CDTG	MC79M08CDTG	NCP1117DT50
MC78M09CDTRK	MC79M08CDTRKG	NCP1117DT50G
MC78M12ABDT	MC79M12BDT	NCP1117DT50RK
MC78M12ABDTG	MC79M12BDTG	NCP1117DT50RKG
MC78M12ABDTRK	MC79M12BDTRK	NCP1117DTA
MC78M12ABDTRKG	MC79M12BDTRKG	NCP1117DTAG
MC78M12ACDT	MC79M12CDT	NCP1117DTARK
MC78M12ACDTG	MC79M12CDTG	NCP1117DTARKG
MC78M12ACDTRK	MC79M12CDTRK	NCP1117DTAT5
MC78M12ACDTRKG	MC79M12CDTRKG	NCP1117DTAT5G
MC78M12BDT	MC79M15BDT	NCP5500DT15RKG
MC78M12BDTG	MC79M15BDTG	NCP5500DT33RKG
MC78M12BDTRK	MC79M15BDTRK	NCP5500DT50RKG
MC78M12BDTRKG	MC79M15BDTRKG	NCP5500DTADJRKG
MC78M12CDT	MC79M15CDT	NCP5501DT15G
MC78M12CDTG	MC79M15CDTG	NCP5501DT15RKG
MC78M12CDTRK	MC79M15CDTRK	NCP5501DT33G
MC78M12CDTRKG	MC79M15CDTRKG	NCP5501DT33RKG
MC78M12CDTT5G	NCP1117DT12	NCP5501DT50G
MC78M15ABDT	NCP1117DT12G	NCP5501DT50RKG
MC78M15ABDTG	NCP1117DT12RK	NCP5504DTRKG
MC78M15ABDTRK	NCP1117DT12RKG	NCP5661DT12RKG
MC78M15ABDTRKG	NCP1117DT15	NCP5661DT33RKG
MC78M15ACDT	NCP1117DT15G	NCP5661DTADJRKG
MC78M15ACDTG	NCP1117DT15RKG	NCV1117DT15RK
MC78M15ACDTRK	NCP1117DT18	NCV1117DT15RKG
MC78M15ACDTRKG	NCP1117DT18G	NCV1117DT18RK
MC78M15BDT	NCP1117DT18RK	NCV1117DT18RKG
MC78M15BDTG	NCP1117DT18RKG	NCV1117DT18T5
MC78M15BDTRK	NCP1117DT18T5	NCV1117DT18T5G
MC78M15BDTRKG	NCP1117DT18T5G	NCV1117DT20RK
MC78M15CDT	NCP1117DT19RKG	NCV1117DT20RKG
MC78M15CDTG	NCP1117DT20	NCV1117DT25RK
MC78M15CDTRK	NCP1117DT20G	NCV1117DT25RKG
MC78M15CDTRKG	NCP1117DT20RK	NCV1117DT33T5
MC78M15CDTT5G	NCP1117DT20RKG	NCV1117DT33T5G



NCV1117DT50RK  
NCV1117DT50RKG  
NCV1117DTARK  
NCV1117DTARKG  
NCV2931ADT-5.0RK  
NCV2931ADT5.0RKG  
NCV2931DT-5.0RK  
NCV2931DT-5.0RKG  
NCV317MABDTRKG  
NCV317MBDTG  
NCV317MBDTRK  
NCV317MBDTRKG  
NCV33269DT-5.0G  
NCV33269DTRK  
NCV33269DTRK-012  
NCV33269DTRK-12G  
NCV33269DTRK-3.3  
NCV33269DTRK3.3G  
NCV33269DTRK-5.0  
NCV33269DTRKG  
NCV33275DT3.3RKG  
NCV4274ADT33RKG  
NCV4274ADT50RKG  
NCV4274DT33RKG  
NCV4274DT50RKG  
NCV4275ADT33RKG

NCV4275DTRK  
NCV4275DTRKG  
NCV4276ADT33RKG  
NCV4276ADT50RKG  
NCV4276ADTADJRKG  
NCV4276DT33RK  
NCV4276DT33RKG  
NCV4276DT50RK  
NCV4276DT50RKG  
NCV4276DTADJRKG  
NCV5500DT15RKG  
NCV5500DT33RKG  
NCV5500DT50RKG  
NCV5500DTADJRKG  
NCV5501DT15G  
NCV5501DT15RKG  
NCV5501DT33G  
NCV5501DT33RKG  
NCV5501DT50G  
NCV5501DT50RKG  
NCV5504DTRKG  
NCV5661DT12RKG  
NCV5661DT33RKG  
NCV5661DTADJRKG  
NCV7805BDTRKG  
NCV7808BDTG

NCV7808BDTRKG  
NCV78M05ABDTRKG  
NCV78M05BDTRK  
NCV78M05BDTRKG  
NCV78M08BDTRKG  
NCV78M12BDTRK  
NCV78M12BDTRKG  
NCV78M15BDTG  
NCV8184DTRK  
NCV8184DTRKG  
NCV86601DT50RKG  
NCV8664DT33RKG  
NCV8664DT50RKG  
NCV8675DT50RKG  
SA317MBDTRK  
SA317MBDTRKG  
SA317MDTRK  
SA317MDTRKG  
SA901002DTRK  
SA901002DTRKG  
SC78M05BDTRK  
SC78M05BDTRKG  
SC78M08BDTRK  
SC78M08BDTRKG  
SC79184DTRK  
SC901000DTRK