



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION
Generic Copy

22-AUG-2003

SUBJECT: ON Semiconductor Final Product/Process Change Notification #12837

TITLE: Final PCN for Qualification of Analog 8 Lead PDIP Products at AIT

EFFECTIVE DATE: 22-Oct-2003

AFFECTED CHANGE CATEGORY: Subcontractor Assembly/Test Site

AFFECTED PRODUCT DIVISION: Analog Products Div

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Representative or Joe Duffalo <FFBH9W@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Representative or Shannon Riggs <R13350@onsemi.com>

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact Sales Representative or Shannon Riggs <R13350@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 a Final Product Change Notice to make customers aware that Advanced Interconnect Technology (AIT), located in Batam, Indonesia is being qualified as a supplemental manufacturing source for ON Semiconductor's Analog 8 lead PDIP products. An Initial PCN (#12837) was published on 16 April 2003 providing information on all the devices being transferred and the scope of this program.

AIT is QS9000 and ISO9002 certified, and has been a qualified subcontractor for ON Semiconductor devices since 1990. AIT is the primary supplier to ON Semiconductor for Analog 14/16 lead PDIP products. The Analog 8 lead PDIP package has been qualified to run specific devices that are currently processed at ASE's Penang, Malaysia location. This is not a transfer but a capacity expansion.

Device parameters will continue to meet all Data Book specifications, and reliability will continue to meet or exceed ON Semiconductor standards.



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Samples are available upon request. At the expiration of this PCN, the devices listed below may be processed at either manufacturing location depending on capacity and demand requirements.

RELIABILITY DATA SUMMARY:

Reliability testing was performed on 3 lots of the LM2574N-5 device. This device was selected because it represents the largest die size of the devices that will be affected by this expansion.

Reliability tests included:

Test	Conditions	Interval
Autoclave	Ta=121DegC, RH=100%	96 hrs, 3 lots, 240 units
HAST	130C/85% RH	96 hrs, 3 lots, 240 units
Temp Cycling	Ta=-65 deg C to +150 deg C	500 cyc, 3 lots, 240 units

Autoclave

Lot ID Read Point - 96 hours

A 0/80

B 0/80

C 0/80

HAST

Lot ID Read Point - 96 hours

A 0/80

B 0/80

C 0/80

Temperature Cycling

Lot ID Read Point - 500 cycles

A 0/80

B 0/80

C 0/80

ELECTRICAL CHARACTERISTIC SUMMARY:

LM2574N-005 - Characterization Data, Major Parameters

Param	Units	Mean	Std Dev	Min	Max	LCL	UCL
Vout@12V,100mA	V	5.023	0.010	4.998	5.046	4.9	5.1
Vout@7V,100mA	V	5.007	0.010	4.981	5.031	4.8	5.2
Vout@7V,500mA	V	5.005	0.010	4.979	5.029	4.8	5.2
Vout@40V,500mA	V	5.057	0.010	5.033	5.081	4.8	5.2
Vout@40V,100mA	V	5.058	0.010	5.033	5.081	4.8	5.2
Osc Freq	KHz	53.021	1.970	48.750	55.150	47	58
Max Duty Cycle	%	98.634	0.231	98.200	99.200	93	--
VSAT	V	1.044	0.014	1.024	1.090	--	1.2
Current Limit	A	1.267	0.016	1.239	1.306	0.7	1.6
IQ	mA	5.272	0.066	5.142	5.409	--	9

CHANGED PART IDENTIFICATION :

Normal assembly lot traceability codes can be used to identify the final manufacturing location. Parts manufactured at AIT will be marked with 'CP', while parts manufactured at ASE will be marked 'CK' in the traceability code.



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AFFECTED DEVICE LIST (WITHOUT SPECIALS):

PART

L4949N
LM201AN
LM2574N-005
LM2574N-012
LM2574N-015
LM2574N-3.3
LM2574N-ADJ
LM258N
LM2903N
LM2903VN
LM2904AN
LM2904N
LM2904VN
LM301AN
LM311N
LM358N
LM393N
LM833N
LP2951ACN
LP2951ACN-3.0
LP2951ACN-3.3
LP2951CN
LP2951CN-3.0
LP2951CN-3.3
MC1403BP1
MC1403P1
MC1455BP1
MC1455P1
MC33039P
MC33063AP1
MC33063AVP
MC33071AP
MC33071P
MC33072AP
MC33072P
MC33077P
MC33078P
MC33151P
MC33152P
MC33153P
MC33161P
MC33171P
MC33172P
MC33178P
MC33201P
MC33202P
MC33202VP
MC33232P
MC33262P
MC33272AP
MC33340P
MC33341P
MC33342P



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MC33502P
MC34063AP1
MC34071AP
MC34071P
MC34072AP
MC34072P
MC34072VP
MC34151P
MC34152P
MC34161P
MC3423P1
MC3488AP1
TL431ACP
TL431AIP
TL431BCP
TL431BIP
TL431BVP
TL431CP
TL431IP
UAA2016P
UC2842AN
UC2842BN
UC2843AN
UC2843BN
UC2844BN
UC2844N
UC2845N
UC3842AN
UC3842AN2
UC3842BN
UC3843AN
UC3843AN2
UC3843BN
UC3843BVN
UC3844BN
UC3844BVN
UC3844N
UC3845BN
UC3845BVN
UC3845N