



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION
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08-APR-2003

SUBJECT: ON Semiconductor Final Product/Process Change Notification #12797

TITLE: PB (LEAD) FREE LEAD FINISH/PLATING CONVERSION

EFFECTIVE DATE: 01-Jul-2003

AFFECTED CHANGE CATEGORY: Assembly Process

AFFECTED PRODUCT DIVISION:

ANALOG PRODUCTS DIV
BIPOLAR DISCRETES PRODUCTS DIV
LOGIC PRODUCTS DIV
MOS POWER PRODUCTS DIV
BROADBAND PRODUCTS DIV

ADDITIONAL RELIABILITY DATA:

Contact Your Local ON Semiconductor Sales Representative

SAMPLES: Contact ON Semiconductor Technical Information Center 1-800-282-9855

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact Your Local ON Semiconductor Sales Representative or
<http://www.onsemi.com/pb-free>

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.

**Final Product/Process Change Notification #12797****DESCRIPTION AND PURPOSE:**

ON Semiconductor recognizes the increasing global demand and need for our customers to produce environmentally friendly products. We also recognize our role in providing our customers with lead free components which in turn allows them to produce such products. Therefore, ON Semiconductor is pleased to announce the Conversion of our products that use a lead (Pb) containing finish on the external leads, to a Pb Free Lead Finish. This Process Change Notification (PCN) addresses the products that will be included in the first phase of this conversion. This PCN is the first in a series of notifications that we expect to be released over the next year. The previously released General Announcement # 12770 provides an overview of the Pb Free Conversion Program.

All Products referenced by this PCN will use a Pure Matte Tin (Sn) lead finish. 100% Matte Sn is the predominate Pb Free finish in the industry. One of the benefits of using 100% Matte Sn, is it allows for "backward compatibility" in the manufacturing process. When a device is described as "backward compatible", it refers to the ability for a manufacturer to use their current SnPb Printed Circuit Board (PCB) solder and assembly process.

All Products referenced by this PCN have passed requirements to be certified with a Moisture Sensitivity Level (MSL) of MSL1. The test requirements meet the JEDEC J-STD-20B, including an extended temperature of 260 Degrees C maximum.

The target ON manufacturing conversion date for these products is July 1st, 2003. All products manufactured after July 1, 2003 will contain the 100% Matte Sn finish. Even though our factories will convert on July 1, 2003, our customers can expect to continue to receive the current lead finish until existing product inventory is depleted on a device by device basis. After existing inventories are depleted, only 100% Matte Sn products will be available. Part Numbers and Part Marking will not change, however, there will be three indicators as to whether product "in hand" is Pb Free. The first will be a date code beyond the conversion date. The second will be the ON bar code label on all reels, tubes and other intermediate shipping containers which will include the phrase "Pb Free Plating". The third will be the ON bar code label on any intermediate shipping boxes which will include the phrase "Pb Free Plating."

Under this PCN, the following packages will be converted to a Pb free lead finish:

ChipFET
SC-59
SC-70
SC-74
SC-75
SC-82AB
SC-88 (refer to device list- not all products affected)
SC-88A
SMA
SMB
SMC
SOD-123
SOD-323
SOT-23L (refer to device list- not all products affected)
SOT-23LC (refer to device list- not all products affected)
TSOP-5
TSOP-6



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RELIABILITY DATA SUMMARY:

Specific Package Based Reliability Reports available upon request.

ELECTRICAL CHARACTERISTIC SUMMARY:

There is no change to the products electrical specifications.

CHANGED PART IDENTIFICATION:

All Pb Free products will have "PB FREE PLTG" printed on the Bar Code Labels.

AFFECTED DEVICE LIST (WITHOUT SPECIALS):

PART

1.5SMC10AT3, 1.5SMC11AT3, 1.5SMC12AT3, 1.5SMC13AT3, 1.5SMC15AT3, 1.5SMC16AT3,
1.5SMC18AT3, 1.5SMC20AT3, 1.5SMC22AT3, 1.5SMC24AT3, 1.5SMC27AT3, 1.5SMC30AT3,
1.5SMC33AT3, 1.5SMC36AT3, 1.5SMC39AT3, 1.5SMC43AT3, 1.5SMC47AT3, 1.5SMC51AT3,
1.5SMC56AT3, 1.5SMC6.8AT3, 1.5SMC62AT3, 1.5SMC68AT3, 1.5SMC7.5AT3, 1.5SMC75AT3,
1.5SMC8.2AT3, 1.5SMC82AT3, 1.5SMC9.1AT3, 1.5SMC91AT3, 1SMA10AT3, 1SMA10CAT3,
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