



INITIAL PRODUCT / PROCESS CHANGE NOTIFICATION
Generic Copy

13-MAR-2001

SUBJECT: Product/Process Change Notification #10863

TITLE: Initial Notification For Bipolar Power Wafer Fab Transfer From Toulouse-France to Phoenix-Arizona.

EFFECTIVE DATE: 28-Jun-2001

AFFECTED CHANGE CATEGORY: On Semiconductor Fab Site

AFFECTED PRODUCT DIVISION: Bipolar Discrete Products

ADDITIONAL RELIABILITY DATA: Not Available

SAMPLES: Contact your local ON Semiconductor Sales Office.
or Patrick Gormley <RYEC60@Onsemi.Com>

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:
Contact Sales Office or Jose Ramirez <RVEG40@onsemi.com>

DESCRIPTION AND PURPOSE:

Initial Notification, 120 Days prior to the change will be followed by appropriate Final Process Change Notices with supporting data a minimum of 60 days prior to implementation.

ON Semiconductor wishes to notify its Customers that the Bipolar Power Wafer Manufacturing Operation located in Toulouse-France will be transferred to Phoenix, Arizona. At the same time, the wafer diameter will be changed from 125mm to 150mm. The entire Wafer manufacturing transfer and qualification process will be done in 4 major phases, each phase corresponding to the qualification of all devices using a specific major Bipolar Power Technology.

1st phase, all Product Lines built with the **Epi Base Technology** will be qualified and transferred.

2nd phase, all Product Lines using the **Power Base Technology** will be qualified and transferred.

3rd phase, all Product Lines built with the **Low Voltage Planar Technology** will be qualified and transferred.

4th phase, all Product Lines built with the **High Voltage SIPOS Planar Technology** will be qualified and transferred.

ON Semiconductor continues to make substantial investments in both new technologies and improved manufacturing capabilities to provide you the highest quality and reliability in the Semiconductor industry. We believe these actions will also improve our ability to serve you better in the future.

**Product/Process Change Notification #10863****QUALIFICATION PLAN:**

*Per AEC-Q101 guidelines.

Test*	Conditions
HTRB	1000 hrs Vcb=80% T=150 deg C
Temp Cycle	1K cycles - 65 to 150 deg C
Autoclave	96 hrs RH=100% P=15psi Ta=121 deg C
H3TRB	1000 hrs Vcb=80% RH=85%
IOL	15K cycles Delta tj=100 deg C
D.P.A.	Random H3TRB and IOL samples
Thermal Resistance	Delta VBE
Die Shear	Pre and Post process change comp.
Wire Bond Strength	Pre and Post process change comp.
Wire Bond Shear	Method 3

(Parametric measurements are per device specification @ 25 deg C)

Qualification Vehicle Justification:

Family	Qualification Device	Reason Chosen
Epi Base (NPN/PNP)	TIP122/TIP42C	Die size and highest voltage
Power Base (NPN/PNP)	MJ21194/MJ21193	Die size and highest Voltage
LV Planar (NPN/PNP)	D44H11/D45H11	Die size and voltage
HV Planar (NPN)	MJE18008	Die size and voltage

RELIABILITY DATA SUMMARY:

Will be issued with each of the four final notifications.

ELECTRICAL CHARACTERISTIC SUMMARY:

Will be issued with each of the four final notifications.

CHANGED PART IDENTIFICATION:

Will be issued with each of the four final notifications.

ADDITIONAL INFORMATION**Contact for additional information**

	Americas	Europe
Name	Jose Ramirez	Daniel Zurawski
Email	jose.l.ramirez@onsemi.com	daniel.zurawski@onsemi.com
Phone	602-244-4819	33534611194

Contact for samples

	Americas	Europe
Name	Patrick Gormley	Daniel Zurawski
Email	pgormley@onsemi.com	daniel.zurawski@onsemi.com
Phone	602-244-3114	33534611194



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AFFECTED DEVICE LIST:

PART

2C3773WP
2C6052WP
2C6059WP
2N3055
2N3055A
2N3055H
2N3442
2N3771
2N3772
2N3773
2N4918
2N4919
2N4920
2N4921
2N4922
2N4923
2N5038
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BD241C
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BD249C
BD435
BD435T
BD436
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BDV65B
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BDW46
BDW47
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BDX54C
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BU323AP
BU323Z
BU406
BU407
BU806
BUD42D
BUD42D-001
BUD43B-001
BUD43D2-001
BUD43D2T4
BUD44D2-001
BUH100
BUH150
BUH50
BUH51
BUL146
BUL146F
BUL147
BUL42D
BUL44
BUL44D2
BUL45
BUL45D2**



**BUL45F
BUV11
BUV26
BUV27
BUX85
D44C12
D44H11
D44H8
D44VH10
D45C12
D45H11
D45H8
D45VH10
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MJ11012
MJ11015
MJ11016
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MJC11016WP
MJC15003WP
MJC15004WP**



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