



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION
Generic Copy

26-OCT-2004

SUBJECT: ON Semiconductor Final Product/Process Change Notification #13717

TITLE: Qualification of ON Semiconductor Seremban Wafer Fab as Secondary Source for Zener Products.

EFFECTIVE DATE: 26-Dec-2004

AFFECTED CHANGE CATEGORY: ON Semiconductor Fab Site

AFFECTED PRODUCT DIVISION: Discretes Products

ADDITIONAL RELIABILITY DATA: Available
Contact your local ON Semiconductor Sales Office or Laura Rivers <S20636@onsemi.com>

SAMPLES: Contact your local ON Semiconductor Sales Office
or Way-Shan Yong <R38534@onsemi.com>

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:
Contact Sales Office or Paul Lem <FFBFBM@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 the Final PCN to Initial PCN 13544, announcing ON Semiconductor has completed the qualification of Seremban Wafer FAB as a secondary source for Zener technology. This added capacity will allow ON Semiconductor to better service our customers.

ON Semiconductor Seremban Wafer FAB is an internal factory that is ISO-TS16949, ISO-9001 and ISO-14000 certified. Zener technology products, from ON Semiconductor Seremban Wafer FAB, will have equal quality and performance compared to current products.

Electrical performance, datasheets and package dimensions will not change.



Final Product/Process Change Notification #13717

RELIABILITY DATA SUMMARY:

SOT23: MMBZ5270BLT1 - 91V
 SMA: 1SMA5940BT3
 SMC: 1.5SMC91AT3 - 91V

Control and Qual.

Test:	Conditions:	Interval:	Sample Size: (Units x Lots)	Failures:
HTRB	TA=150C,80% Rated Voltage	1008 hrs	77 x 3 (231)	0
Precondition	MSL1, IR at 235 C/260 C,	96 hrs	308 x 3	
Autoclave	T=121C/100% RH/15 psig	96 hrs	77 x 3 (231)	0
H3TRB-PC	T=85C/85% RH/80% Rated Voltage 100V Max	1008 hrs	77 x 3 (231)	0
IOL-PC	T=25C, Delta TJ = 100 C, Ton/off = 2 min.	15000 cyc	77 x 3 (231)	0
TC-PC	T= -65 C to 150 C	1000 cyc	77 x 3 (231)	0
DPA	Per AECQ101, after TC and H3TRB		4 x 1 (4)	0/4
RSH	Resistance to Solder Heat - 260 C		10 x 3 (30)	0/30
ESD	Human Body Model Machine Model IEC-61000-4-2		6 x 4 (24) 6 x 4 (24) 6 x 4 (24)	Class 3 >16kV >400V Level 4

ELECTRICAL CHARACTERISTIC SUMMARY:

Characterization Plan for All Devices:
 (All data taken at 25C)

MMBZ5270BLT1						
Control	Parameter:	IR (V)	VZ (V)	ZZ (Ohm)	ZZ (Ohm)	VF (V)
	Condition:	VR=69V	IT=1.4mA	IT=1.4mA	IZ=250uA	IF=10mA
	Max Limit:	1.00E-07	95.550	400.000	2300.000	0.900
	Min Limit:		65.450			
	Average:	3.79E-10	90.42	142.53	239.22	0.80
	Std Dev:	2.34E-10	0.69	33.96	86.95	0.00
Qual 1	Max:	7.68E-10	89.72	346.30	669.60	0.80
	Min:	4.472E-10	86.31	80.64	117.60	0.80
	Average:	6.2112E-10	88.53	143.73	396.88	0.80
	Std Dev:	8.39294E-11	0.94	54.01	160.39	0.00
Qual 2	Max:	8.16E-10	94.15	339.50	643.60	0.80
	Min:	1.04E-10	90.22	78.64	118.60	0.80
	Average:	4.10E-10	92.27	155.79	337.98	0.80
	Std Dev:	1.78E-10	0.94	73.35	164.11	0.00
Qual 3	Max:	7.10E-10	89.73	213.00	213.00	0.80
	Min:	5.19E-10	86.69	147.20	116.70	0.80
	Average:	6.24E-10	88.12	150.94	338.81	0.80
	Std Dev:	5.11E-11	0.77	25.43	161.15	0.00



Final Product/Process Change Notification #13717

1SMA5940BT3

Control	Parameter:	IR (V)	VZ (V)	ZZ (Ohm)	ZZ (Ohm)	VF (V)
	Condition:	VR=32.7V	IT=8.7mA	IT=8.7mA	IZ=250uA	IF=200mA
	Max Limit:	5.00E-07	45.20	53.00	950.00	1.50
	Min Limit:		40.80			
	Max:	9.72E-10	43.46	37.40	588.00	0.87
	Min:	5.30E-11	41.47	15.93	91.00	0.87
	Average:	5.26E-10	42.61	24.65	300.48	0.87
	Std Dev:	3.91E-10	0.61	5.01	161.78	0.00
Qual 1	Max:	3.79E-10	43.44	930.80	29.28	0.87
	Min:	5.60E-11	42.64	95.44	4.55	0.87
	Average:	1.44E-10	43.11	293.27	13.30	0.87
	Std Dev:	8.73E-11	0.20	218.89	5.36	0.00
Qual 2	Max:	3.71E-10	44.87	29.72	632.40	0.86
	Min:	5.80E-11	43.31	11.39	128.20	0.85
	Average:	1.66E-10	44.12	18.70	352.76	0.85
	Std Dev:	8.37E-11	0.40	4.71	122.28	0.00
Qual 3	Max:	4.39E-10	43.50	29.05	904.80	0.87
	Min:	2.10E-11	42.30	9.91	95.80	0.86
	Average:	1.54E-10	43.08	16.17	359.67	0.86
	Std Dev:	1.27E-10	0.31	3.95	237.09	0.00

1.5SMC91AT3

Control	Symbol	IR (A)	VZ (V)	VC (10x1000) (V)
	Condition:	VR=77.8V	IT=1mA	IPP=12A
	Max Limit:	5.00E-06	95.500	125
	Min Limit:		86.500	
	Max:	1.40E-08	92.23	101.90
	Min:	1.03E-08	88.45	97.30
	Average:	1.21E-08	90.59	99.72
	Std Dev:	1.00E-09	1.16	1.44
Qual 1	Max:	3.47E-08	92.80	102.90
	Min:	6.99E-09	89.82	99.80
	Average:	1.05E-08	91.70	101.21
	Std Dev:	5.29E-09	0.83	1.09
Qual 2	Max:	2.54E-08	90.29	100.00
	Min:	6.27E-09	88.09	96.50
	Average:	9.23E-09	88.97	98.26
	Std Dev:	3.99E-09	0.53	1.18
Qual 3	Max:	1.23E-08	92.70	102.10
	Min:	5.57E-09	90.27	99.90
	Average:	7.24E-09	91.88	100.96
	Std Dev:	1.81E-09	0.61	0.69



Final Product/Process Change Notification #13717

CHANGED PART IDENTIFICATION:

Products with date code 0501 (501) [January 1, 2005] and forward may contain silicon from ON SEMI Seremban wafer fab.

AFFECTED DEVICE LIST (WITHOUT SPECIALS):

PART

1.5KE10A
1.5KE10ARL4
1.5KE11A
1.5KE11ARL4
1.5KE12A
1.5KE12ARL4
1.5KE13ARL4
1.5KE15A
1.5KE15ARL4
1.5KE16A
1.5KE16ARL4
1.5KE18A
1.5KE18ARL4
1.5KE20A
1.5KE20ARL4
1.5KE22A
1.5KE22ARL4
1.5KE24A
1.5KE24ARL4
1.5KE27A
1.5KE27ARL4
1.5KE30A
1.5KE30ARL4
1.5KE33A
1.5KE33ARL4
1.5KE36A
1.5KE36ARL4
1.5KE39ARL4
1.5KE43A
1.5KE43ARL4
1.5KE47A
1.5KE47ARL4
1.5KE51ARL4
1.5KE56A
1.5KE56ARL4
1.5KE6.8A
1.5KE6.8ARL4
1.5KE62A
1.5KE62ARL4
1.5KE68A
1.5KE68ARL4
1.5KE7.5A
1.5KE75A
1.5KE75ARL4
1.5KE8.2A
1.5KE8.2ARL4
1.5KE82A



Final Product/Process Change Notification #13717

- 1.5KE82ARL4
- 1.5KE9.1A
- 1.5KE9.1ARL4
- 1.5KE91ARL4
- 1.5SMC10AT3
- 1.5SMC11AT3
- 1.5SMC12AT3
- 1.5SMC12AT3G
- 1.5SMC13AT3
- 1.5SMC13AT3G
- 1.5SMC15AT3
- 1.5SMC15AT3G
- 1.5SMC16AT3
- 1.5SMC16AT3G
- 1.5SMC18AT3
- 1.5SMC18AT3G
- 1.5SMC20AT3
- 1.5SMC20AT3G
- 1.5SMC22AT3
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- 1.5SMC24AT3
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- 1.5SMC39AT3
- 1.5SMC39AT3G
- 1.5SMC43AT3
- 1.5SMC43AT3G
- 1.5SMC47AT3
- 1.5SMC47AT3G
- 1.5SMC51AT3
- 1.5SMC51AT3G
- 1.5SMC56AT3
- 1.5SMC56AT3G
- 1.5SMC6.8AT3
- 1.5SMC6.8AT3G
- 1.5SMC62AT3
- 1.5SMC62AT3G
- 1.5SMC68AT3
- 1.5SMC7.5AT3
- 1.5SMC7.5AT3G
- 1.5SMC75AT3
- 1.5SMC75AT3G
- 1.5SMC8.2AT3
- 1.5SMC8.2AT3G
- 1.5SMC82AT3
- 1.5SMC9.1AT3
- 1.5SMC91AT3
- 1.5SMC91AT3G
- 1N5348B



Final Product/Process Change Notification #13717

1N5348BRL
1N5349B
1N5349BRL
1N5350B
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1N5376BRL



Final Product/Process Change Notification #13717

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Final Product/Process Change Notification #13717

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1PMT30AT3



Final Product/Process Change Notification #13717

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1SMA11AT3



Final Product/Process Change Notification #13717

- 1SMA12AT3
- 1SMA12AT3G
- 1SMA13AT3
- 1SMA15AT3
- 1SMA15AT3G
- 1SMA16AT3
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- 1SMA40AT3
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- 1SMA48AT3
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- 1SMA51AT3
- 1SMA54AT3
- 1SMA58AT3
- 1SMA5926BT3
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- 1SMA5938BT3
- 1SMA5939BT3
- 1SMA5940BT3
- 1SMA5940BT3G
- 1SMA5941BT3
- 1SMA5942BT3



Final Product/Process Change Notification #13717

- 1SMA5943BT3
- 1SMA5943BT3G
- 1SMA5944BT3
- 1SMA5945BT3
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- 1SMA6.0AT3G
- 1SMA6.5AT3
- 1SMA6.5AT3G
- 1SMA64AT3
- 1SMA7.0AT3
- 1SMA7.0AT3G
- 1SMA7.5AT3
- 1SMA70AT3
- 1SMA75AT3
- 1SMA8.0AT3
- 1SMA8.5AT3
- 1SMA9.0AT3
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- 1SMB13AT3G
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- 1SMB40AT3
- 1SMB40AT3G
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- 1SMB45AT3
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- 1SMB5.0AT3
- 1SMB5.0AT3G
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- 1SMB54AT3



Final Product/Process Change Notification #13717

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1SMB8.5AT3
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1SMC16AT3



Final Product/Process Change Notification #13717

1SMC17AT3
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1SMC75AT3
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1SMC8.5AT3
1SMC9.0AT3
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1SMF16BT1G
1SMF16BT3
1SMF16BT3G
3EZ13D5
3EZ15D5
3EZ15D5RL
3EZ16D5
3EZ16D5RL
3EZ18D5
3EZ18D5RL
3EZ24D5
3EZ24D5RL
3EZ36D5RL
3EZ39D5
BZG03C15
BZG03C150
BZG03C150G
BZG03C15G



Final Product/Process Change Notification #13717

ICTE-005
ICTE-010
ICTE-012
ICTE-015
ICTE-018
ICTE-022
ICTE-10RL4
ICTE-12RL4
ICTE-15RL4
ICTE-18RL4
ICTE-36RL4
ICTE-5RL4
MPTE-005
MPTE-010
MPTE-012
MPTE-015
MPTE-018
MPTE-022
MPTE-12RL4
MPTE-5RL4
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P6KE12ARL
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P6KE16A
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P6KE18A
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P6KE20A
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P6KE22ARL
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P6KE24ARL
P6KE27A
P6KE27ARL
P6KE30A
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P6KE33A
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P6KE36A
P6KE36ARL



Final Product/Process Change Notification #13717

P6KE39A
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P6KE6.8ARL
P6KE62A
P6KE62ARL
P6KE68A
P6KE68ARL
P6KE7.5A
P6KE7.5ARL
P6KE75ARL
P6KE8.2ARL
P6KE82ARL
P6KE9.1A
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P6SMB47AT3G
P6SMB51AT3
P6SMB56AT3
P6SMB6.8AT3
P6SMB6.8AT3G
P6SMB62AT3



Final Product/Process Change Notification #13717

P6SMB68AT3
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P6SMB82AT3
P6SMB82AT3G
P6SMB9.1AT3
P6SMB91AT3
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SA60ALF
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SA8.0A



Final Product/Process Change Notification #13717

SA8.5A
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SA90A
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