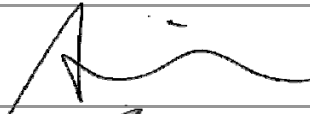




Product/Process Change Notification

PCN#	Effective Date	Issue Date
2014-08-01C-05	2015/2/1	2014/8/1
PCN Classification	Product Category	
Major	SOT-363 Package	
Subject		
Add a molding vendor		
Affected Product(s)		
As attachment		
Description of Change(s)		
In order to avoid shortage of the material, and enhance the speed of delivery, thus, we add a new vendor.		
Content of Change(s)		
Add Molding vendor--ELER-8-100HFE		
Impact(s)		
N/A		
Attachment(s)		
Reliability Teat Report.		

Approval		
Issue by	Alice Lai	e-mail: alice@secosgmbh.com
Development Engineer		Alice Lai
QA Manager		Peter Yang
General Manger		Mathew Liu

For more information, please contact us directly or visit our website <http://www.secosgmbh.com>

Affected Product

BAT54TW	2N7002KDW	SMUN5213DW
BAT54ADW	S2N7002DW	SMUN5214DW
BAT54BRW	SUM1960NE	SMUN5215DW
BAT54CDW	SUM2153	SMUN5216DW
BAT54SDW	SUM6K1N	SMUN5230DW
SCS731XN	BZX84CxxxTS Series	SMUN5231DW
SD103ATW	BC846S	SMUN5232DW
BAS70TW	BC847PN	SMUN5233DW
BAS70BRW	BC847S	SMUN5234DW
BAS70DW-04	BC857S	SMUN5235DW
BAS70DW-05	MMDT2222A	SMUN5236DW
BAS70DW-06	MMDT2227	SMUN5237DW
BAV99BRW	MMDT2907A	SMUN5311DW
BAV99DW	MMDT3904	SMUN5312DW
BAS16TW	MMDT3906	SMUN5313DW
BAV70DW	MMDT3946	SMUN5314DW
BAV756DW	MMDT4401	SMUN5315DW
BAW567DW	MMDT4403	SMUN5316DW
BAW56DW	MMDT4413	SMUN5330DW
MMBD4148TW	MMDT5401	SMUN5331DW
MMBD4448DW	MMDT5451	SMUN5332DW
MMBD4448HADW	MMDT5551	SMUN5334DW
MMBD4448HAQW	UMT1N	UMD2N
MMBD4448HCDW	UMX18N	UMD3N
MMBD4448HSDW	UMX1N	UMH11N
MMBD4448HTW	UMX3N	UMH13N
BAV199DW	UMZ1N	UMH15N
KS05K5	SMUN5211DW	UMH1N
KS33K5	SMUN5212DW	UMH9N



Reliability Testing Summary Report

Date: 2014/06/30

Document No.: SH14 -06- 38

Test Item	P/N	Test Condition	(LTPD)	Sample Numbers	Allow Fall Numbers	Fall Numbers	Result
HTRB High Temp Reverse Bias	BAV99BRW	100 ± 5°C, 100% VR, T = 1000hrs		77	0	0	ACC
HTSL High Temperature Storage Life	BAV99BRW	150°C, T = 1000 hrs		77	0	0	ACC
PCT Pressure Cooker Test	BAV99BRW	121°C, 29.7PSIG, 168 hrs		77	0	0	ACC
TCT Temperature Cycle Test	BAV99BRW	-55°C/30min, 150°C/30min, For 1000 Cycle		77	0	0	ACC
THT High Temperature High Humidity Test	BAV99BRW	85 ± 2°C, RH=85±5%, 1000 hrs		77	0	0	ACC
H3TRB High Temper High Humidity Reverse Bies Test	BAV99BRW	85 ± 2°C, RH=85±5%, 1000 hrs		77	0	0	ACC
Solderability	BAV99BRW	245 ± 5°C, 5Sec the inspected area of each lead must have 95% solder coverage minimum		10	0	0	ACC

Judgment:

qualified unqualified

Testing Start Date: 2014.05.05 Testing End Date: 2014.06.30

Tester: Leo Hsia Approval: Peter Yang



Electrical Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 25°C

Test Date: 2014.05.05 ~ 2014.05.05

Test Standard : Specifications

Operator: Leo Hsia

Test Result: PASS

No	VF (mV)	VB (V)	IR (uA)
1	964.2mV	127.9V	0.011uA
2	958.4mV	128.5V	0.025uA
3	964.5mV	130.1V	0.016uA
4	966.0mV	129.6V	0.017uA
5	957.8mV	125.7V	0.018uA
6	968.2mV	128.0V	0.025uA
7	964.5mV	129.1V	0.022uA
8	962.0mV	128.5V	0.011uA
9	967.9mV	130.5V	0.020uA
10	963.3mV	126.4V	0.026uA
11	958.8mV	125.8V	0.010uA
12	965.8mV	130.0V	0.022uA
13	968.4mV	130.6V	0.013uA
14	959.2mV	130.4V	0.018uA
15	962.3mV	126.9V	0.012uA
16	959.1mV	125.3V	0.020uA
17	964.9mV	128.4V	0.017uA
18	963.5mV	127.2V	0.021uA
19	964.1mV	125.9V	0.024uA
20	958.5mV	126.0V	0.016uA
21	962.4mV	126.2V	0.025uA
22	961.6mV	128.1V	0.025uA
23	961.4mV	130.2V	0.025uA
24	966.2mV	129.9V	0.016uA
25	957.9mV	129.2V	0.018uA
26	963.8mV	128.6V	0.024uA
27	965.4mV	124.9V	0.016uA
28	963.6mV	126.6V	0.011uA
29	960.2mV	129.7V	0.019uA
30	957.1mV	127.4V	0.013uA
31	961.0mV	130.7V	0.020uA



Electrical Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 25°C

Test Date: 2014.05.05 ~ 2014.05.05

Test Standard : Specifications

Operator: Leo Hsia

Test Result: PASS

No	VF (mV)	VB (V)	IR (uA)
32	958.1mV	131.0V	0.026uA
33	964.9mV	125.3V	0.024uA
34	960.0mV	129.6V	0.012uA
35	964.5mV	129.5V	0.017uA
36	963.7mV	126.1V	0.012uA
37	966.3mV	126.3V	0.026uA
38	966.9mV	125.6V	0.019uA
39	967.7mV	125.7V	0.011uA
40	960.4mV	126.6V	0.020uA
41	960.6mV	126.2V	0.019uA
42	964.0mV	127.2V	0.020uA
43	957.0mV	130.9V	0.025uA
44	958.6mV	128.3V	0.017uA
45	957.6mV	125.1V	0.023uA
46	965.1mV	125.5V	0.023uA
47	964.2mV	125.4V	0.020uA
48	959.2mV	129.3V	0.017uA
49	962.7mV	127.9V	0.013uA
50	959.8mV	130.5V	0.024uA
51	967.4mV	125.8V	0.023uA
52	963.6mV	127.9V	0.012uA
53	958.1mV	130.5V	0.025uA
54	966.9mV	127.9V	0.025uA
55	964.4mV	130.3V	0.018uA
56	966.2mV	129.4V	0.012uA
57	964.9mV	129.5V	0.015uA
58	960.8mV	128.2V	0.010uA
59	960.4mV	130.4V	0.014uA
60	956.6mV	127.8V	0.017uA
61	962.2mV	126.2V	0.012uA
62	958.2mV	129.5V	0.026uA



Electrical Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 25°C

Test Date: 2014.05.05 ~ 2014.05.05

Test Standard : Specifications

Operator: Leo Hsia

Test Result: PASS

No	VF (mV)	VB (V)	IR (uA)
63	963.4mV	126.2V	0.019uA
64	963.3mV	124.9V	0.026uA
65	964.4mV	129.2V	0.021uA
66	967.2mV	127.2V	0.022uA
67	959.8mV	128.2V	0.023uA
68	966.1mV	129.8V	0.013uA
69	966.6mV	126.2V	0.015uA
70	965.9mV	129.0V	0.014uA
71	964.7mV	127.9V	0.014uA
72	968.3mV	127.1V	0.023uA
73	959.6mV	125.4V	0.012uA
74	958.0mV	127.7V	0.020uA
75	957.3mV	130.2V	0.025uA
76	966.8mV	127.1V	0.024uA
77	965.3mV	129.5V	0.024uA

Made By: Leo Hsia

Approval: Peter Yang



High Temperature Reverse Bias Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 100 ± 5°C, 100% VR, T = 1000 hrs

Test Date: 2014.05.05 ~ 2014.06.15

Test Standard : JESD22 STANDARD Method-A108

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
1	958.4mV	126.8V	0.021uA	965.1mV	129.5V	0.018uA
2	967.2mV	125.6V	0.021uA	957.9mV	128.4V	0.015uA
3	963.0mV	129.5V	0.013uA	957.8mV	130.8V	0.017uA
4	961.9mV	125.2V	0.011uA	959.7mV	126.2V	0.014uA
5	956.6mV	129.6V	0.015uA	958.9mV	124.9V	0.020uA
6	960.8mV	131.0V	0.016uA	963.3mV	130.5V	0.012uA
7	964.3mV	131.1V	0.019uA	964.8mV	130.7V	0.016uA
8	961.3mV	130.1V	0.016uA	957.9mV	130.9V	0.020uA
9	967.0mV	128.0V	0.025uA	956.3mV	130.5V	0.012uA
10	967.3mV	126.4V	0.022uA	965.3mV	124.7V	0.014uA
11	956.2mV	130.9V	0.016uA	956.5mV	127.4V	0.020uA
12	966.4mV	130.6V	0.024uA	964.1mV	131.1V	0.015uA
13	959.6mV	130.9V	0.015uA	961.6mV	127.6V	0.018uA
14	965.3mV	129.0V	0.016uA	962.3mV	125.7V	0.025uA
15	961.8mV	128.4V	0.018uA	956.5mV	128.9V	0.011uA
16	968.0mV	129.9V	0.012uA	958.8mV	128.3V	0.023uA
17	959.9mV	127.3V	0.023uA	965.4mV	130.5V	0.022uA
18	960.5mV	126.1V	0.023uA	959.2mV	129.9V	0.011uA
19	961.2mV	127.1V	0.018uA	964.2mV	130.6V	0.024uA
20	962.9mV	130.7V	0.026uA	967.0mV	128.9V	0.019uA
21	961.3mV	126.3V	0.020uA	960.7mV	130.6V	0.014uA
22	963.7mV	125.1V	0.018uA	965.1mV	126.7V	0.018uA
23	965.3mV	127.5V	0.012uA	962.3mV	125.7V	0.021uA
24	966.2mV	128.0V	0.014uA	965.6mV	126.1V	0.016uA
25	961.9mV	130.1V	0.026uA	960.7mV	129.8V	0.018uA
26	964.4mV	125.3V	0.022uA	966.8mV	128.8V	0.021uA
27	962.9mV	129.5V	0.021uA	959.3mV	130.0V	0.021uA
28	958.9mV	128.0V	0.013uA	966.3mV	126.7V	0.025uA
29	967.2mV	124.9V	0.024uA	963.8mV	127.2V	0.013uA
30	957.0mV	127.8V	0.011uA	965.4mV	129.0V	0.017uA



High Temperature Reverse Bias Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 100 ± 5°C, 100% VR, T = 1000 hrs

Test Date: 2014.05.05 ~ 2014.06.15

Test Standard : JESD22 STANDARD Method-A108

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
31	957.5mV	127.9V	0.014uA	964.3mV	129.7V	0.017uA
32	959.5mV	126.6V	0.020uA	964.4mV	125.3V	0.015uA
33	965.5mV	127.1V	0.024uA	966.3mV	125.2V	0.015uA
34	959.4mV	127.2V	0.012uA	963.3mV	126.9V	0.018uA
35	956.7mV	131.1V	0.019uA	958.9mV	126.1V	0.012uA
36	963.2mV	130.3V	0.019uA	959.1mV	128.4V	0.013uA
37	960.3mV	125.9V	0.023uA	967.4mV	129.8V	0.018uA
38	968.1mV	130.5V	0.022uA	956.4mV	127.9V	0.023uA
39	961.3mV	126.5V	0.024uA	962.5mV	125.1V	0.016uA
40	956.8mV	126.5V	0.022uA	959.8mV	126.4V	0.020uA
41	960.5mV	130.8V	0.023uA	956.6mV	126.9V	0.022uA
42	966.4mV	128.7V	0.015uA	958.1mV	125.6V	0.012uA
43	960.4mV	126.2V	0.018uA	967.7mV	126.2V	0.021uA
44	961.2mV	130.0V	0.021uA	967.7mV	126.3V	0.014uA
45	964.8mV	126.9V	0.025uA	965.3mV	125.1V	0.018uA
46	960.9mV	130.2V	0.025uA	956.4mV	126.8V	0.023uA
47	963.6mV	128.4V	0.021uA	962.2mV	130.7V	0.021uA
48	964.3mV	129.2V	0.024uA	956.3mV	127.7V	0.014uA
49	956.2mV	125.6V	0.011uA	968.2mV	128.0V	0.012uA
50	965.7mV	130.4V	0.025uA	962.4mV	128.5V	0.018uA
51	959.6mV	130.8V	0.022uA	958.5mV	129.3V	0.011uA
52	961.5mV	125.1V	0.024uA	958.1mV	126.3V	0.025uA
53	966.6mV	130.9V	0.019uA	966.2mV	130.1V	0.018uA
54	958.9mV	126.7V	0.016uA	967.4mV	125.7V	0.023uA
55	962.6mV	130.0V	0.017uA	966.0mV	126.0V	0.012uA
56	958.4mV	124.7V	0.023uA	959.6mV	126.4V	0.016uA
57	957.7mV	124.8V	0.011uA	966.2mV	125.5V	0.012uA
58	957.4mV	128.5V	0.016uA	960.7mV	127.9V	0.013uA
59	966.3mV	126.5V	0.021uA	956.2mV	128.5V	0.014uA
60	957.3mV	128.7V	0.015uA	958.7mV	130.3V	0.023uA



High Temperature Reverse Bias Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 100 ± 5°C, 100% VR, T = 1000 hrs

Test Date: 2014.05.05 ~ 2014.06.15

Test Standard : JESD22 STANDARD Method-A108

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
61	963.4mV	125.7V	0.021uA	967.6mV	128.0V	0.012uA
62	964.6mV	130.6V	0.025uA	966.8mV	126.8V	0.018uA
63	962.3mV	129.4V	0.018uA	967.9mV	127.2V	0.025uA
64	960.5mV	125.0V	0.011uA	964.2mV	128.0V	0.013uA
65	963.4mV	129.6V	0.015uA	966.9mV	126.0V	0.025uA
66	958.1mV	127.1V	0.011uA	956.3mV	126.0V	0.017uA
67	967.0mV	129.6V	0.020uA	968.2mV	130.1V	0.015uA
68	967.4mV	130.9V	0.019uA	958.8mV	128.7V	0.012uA
69	964.8mV	125.9V	0.023uA	959.9mV	128.4V	0.016uA
70	968.3mV	130.5V	0.013uA	962.4mV	130.3V	0.012uA
71	956.5mV	125.5V	0.017uA	967.5mV	131.0V	0.013uA
72	958.5mV	131.1V	0.025uA	958.8mV	125.0V	0.018uA
73	967.1mV	126.3V	0.024uA	959.3mV	126.7V	0.025uA
74	960.3mV	125.5V	0.017uA	959.3mV	125.7V	0.021uA
75	959.2mV	127.8V	0.014uA	963.0mV	130.5V	0.019uA
76	957.6mV	128.7V	0.011uA	961.6mV	128.4V	0.013uA
77	961.0mV	127.3V	0.020uA	965.4mV	125.5V	0.011uA

Made By: Leo Hsia

Approval: Peter Yang



High Temperature Storage Life Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 150°C, 1000Hrs

Test Date: 2014.05.05 ~ 2014.06.15

Test Standard : JESD22 STANDARD Method-A103

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
1	961.7mV	130.2V	0.020uA	960.5mV	130.0V	0.015uA
2	956.9mV	129.7V	0.016uA	959.3mV	128.7V	0.013uA
3	961.8mV	130.8V	0.019uA	967.6mV	127.3V	0.026uA
4	959.2mV	127.1V	0.019uA	966.9mV	129.9V	0.017uA
5	963.1mV	128.8V	0.020uA	960.4mV	126.3V	0.021uA
6	965.4mV	124.8V	0.013uA	968.2mV	129.6V	0.022uA
7	962.3mV	128.8V	0.022uA	966.0mV	124.8V	0.021uA
8	957.7mV	126.2V	0.019uA	965.7mV	126.3V	0.014uA
9	963.9mV	127.3V	0.012uA	964.3mV	127.0V	0.021uA
10	956.8mV	130.7V	0.026uA	960.5mV	126.0V	0.025uA
11	963.7mV	125.2V	0.020uA	957.8mV	125.2V	0.022uA
12	957.4mV	129.0V	0.012uA	957.5mV	129.4V	0.014uA
13	962.4mV	129.7V	0.013uA	958.1mV	129.5V	0.020uA
14	966.8mV	124.7V	0.014uA	961.4mV	128.5V	0.020uA
15	960.6mV	125.2V	0.011uA	963.6mV	125.1V	0.025uA
16	957.9mV	126.0V	0.014uA	960.5mV	127.8V	0.020uA
17	963.3mV	126.8V	0.018uA	959.9mV	128.6V	0.015uA
18	957.4mV	127.2V	0.015uA	966.6mV	126.7V	0.012uA
19	958.4mV	125.0V	0.024uA	960.4mV	128.8V	0.018uA
20	966.4mV	130.5V	0.016uA	956.5mV	126.8V	0.013uA
21	959.6mV	126.0V	0.023uA	964.9mV	127.0V	0.011uA
22	967.7mV	125.4V	0.020uA	962.5mV	130.2V	0.021uA
23	962.3mV	126.7V	0.022uA	966.8mV	127.6V	0.025uA
24	966.4mV	128.2V	0.015uA	960.8mV	129.5V	0.012uA
25	961.0mV	127.4V	0.026uA	962.0mV	125.6V	0.017uA
26	961.6mV	124.9V	0.015uA	965.9mV	129.6V	0.024uA
27	958.3mV	128.4V	0.015uA	956.3mV	128.8V	0.025uA
28	965.1mV	124.9V	0.012uA	959.0mV	127.4V	0.026uA
29	957.1mV	128.0V	0.024uA	959.6mV	129.6V	0.020uA
30	956.3mV	129.5V	0.025uA	961.6mV	130.2V	0.025uA



High Temperature Storage Life Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 150°C, 1000Hrs

Test Date: 2014.05.05 ~ 2014.06.15

Test Standard : JESD22 STANDARD Method-A103

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
31	964.5mV	130.8V	0.019uA	965.6mV	129.6V	0.021uA
32	965.4mV	127.8V	0.014uA	957.9mV	130.4V	0.013uA
33	963.5mV	129.5V	0.017uA	962.6mV	127.5V	0.026uA
34	963.7mV	128.6V	0.013uA	957.0mV	129.5V	0.021uA
35	958.5mV	128.2V	0.016uA	958.1mV	125.2V	0.020uA
36	966.8mV	126.0V	0.024uA	958.6mV	125.1V	0.020uA
37	960.0mV	131.1V	0.014uA	965.4mV	124.9V	0.016uA
38	957.1mV	128.4V	0.024uA	959.6mV	129.5V	0.012uA
39	956.7mV	125.3V	0.024uA	963.6mV	127.0V	0.015uA
40	960.6mV	130.0V	0.020uA	960.0mV	126.6V	0.024uA
41	964.8mV	127.9V	0.015uA	957.7mV	129.0V	0.012uA
42	968.3mV	129.4V	0.020uA	956.8mV	128.0V	0.016uA
43	967.8mV	128.7V	0.015uA	964.7mV	129.0V	0.020uA
44	967.6mV	129.8V	0.023uA	967.0mV	130.2V	0.015uA
45	957.8mV	127.2V	0.024uA	960.7mV	129.2V	0.024uA
46	961.3mV	127.5V	0.017uA	964.9mV	130.1V	0.017uA
47	963.1mV	130.7V	0.013uA	964.3mV	128.8V	0.015uA
48	957.6mV	130.8V	0.015uA	957.8mV	124.8V	0.021uA
49	962.5mV	126.2V	0.025uA	957.0mV	129.6V	0.014uA
50	960.2mV	129.9V	0.015uA	962.7mV	125.0V	0.013uA
51	958.2mV	125.8V	0.024uA	964.6mV	130.2V	0.011uA
52	961.1mV	125.8V	0.023uA	967.7mV	125.3V	0.018uA
53	963.9mV	129.2V	0.026uA	957.4mV	129.1V	0.014uA
54	960.8mV	128.7V	0.016uA	963.1mV	125.6V	0.015uA
55	966.4mV	125.0V	0.013uA	956.6mV	126.8V	0.024uA
56	960.1mV	125.7V	0.024uA	962.3mV	125.3V	0.013uA
57	963.4mV	125.9V	0.024uA	966.0mV	129.9V	0.022uA
58	966.6mV	125.1V	0.021uA	958.4mV	126.2V	0.018uA
59	964.4mV	130.5V	0.013uA	968.0mV	129.1V	0.025uA
60	966.5mV	127.7V	0.020uA	968.3mV	129.5V	0.016uA



High Temperature Storage Life Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 150°C, 1000Hrs

Test Date: 2014.05.05 ~ 2014.06.15

Test Standard : JESD22 STANDARD Method-A103

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
61	957.8mV	127.6V	0.025uA	960.2mV	126.6V	0.018uA
62	956.3mV	125.7V	0.025uA	963.3mV	129.6V	0.024uA
63	959.3mV	127.1V	0.020uA	964.5mV	130.3V	0.026uA
64	965.8mV	128.4V	0.021uA	959.2mV	127.3V	0.019uA
65	964.9mV	125.2V	0.022uA	963.7mV	128.8V	0.017uA
66	958.5mV	126.4V	0.015uA	958.1mV	130.2V	0.024uA
67	959.7mV	130.5V	0.021uA	959.7mV	126.2V	0.021uA
68	956.8mV	128.4V	0.022uA	957.0mV	126.8V	0.020uA
69	958.4mV	130.6V	0.024uA	957.8mV	126.1V	0.024uA
70	964.8mV	125.8V	0.019uA	958.1mV	128.4V	0.010uA
71	963.8mV	125.1V	0.017uA	961.1mV	127.5V	0.026uA
72	957.2mV	127.0V	0.011uA	961.2mV	126.7V	0.017uA
73	961.8mV	130.9V	0.016uA	957.8mV	130.7V	0.010uA
74	958.1mV	129.2V	0.022uA	959.5mV	125.6V	0.020uA
75	960.6mV	129.4V	0.022uA	962.6mV	129.5V	0.017uA
76	965.7mV	129.9V	0.024uA	957.3mV	129.4V	0.026uA
77	956.3mV	129.2V	0.011uA	961.8mV	128.2V	0.022uA

Made By: Leo Hsia

Approval: Peter Yang



SeCoS Corporation

Pressure Cooker Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 121°C, 100%RH, 29.7PSIG, 168Hrs

Test Date: 2014.05.05 ~ 2014.05.11

Test Standard : JESD22 STANDARD Method-A102

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
1	966.3mV	126.4V	0.011uA	958.7mV	126.4V	0.017uA
2	964.1mV	131.0V	0.023uA	968.3mV	130.5V	0.024uA
3	958.3mV	127.9V	0.021uA	959.5mV	129.6V	0.014uA
4	958.9mV	130.4V	0.025uA	956.3mV	126.4V	0.019uA
5	965.5mV	128.4V	0.018uA	959.2mV	124.7V	0.013uA
6	957.6mV	127.1V	0.011uA	968.2mV	129.6V	0.023uA
7	967.8mV	128.6V	0.014uA	962.3mV	125.6V	0.022uA
8	966.1mV	129.7V	0.014uA	959.0mV	127.0V	0.014uA
9	962.1mV	127.7V	0.019uA	967.9mV	127.6V	0.021uA
10	959.0mV	129.9V	0.023uA	960.2mV	126.6V	0.021uA
11	963.3mV	129.2V	0.021uA	960.3mV	127.8V	0.017uA
12	960.2mV	127.0V	0.021uA	961.0mV	126.1V	0.021uA
13	960.4mV	129.7V	0.011uA	964.6mV	125.1V	0.011uA
14	964.4mV	128.7V	0.018uA	967.1mV	125.0V	0.021uA
15	962.3mV	125.3V	0.014uA	963.9mV	127.4V	0.021uA
16	966.2mV	125.3V	0.012uA	956.5mV	128.6V	0.016uA
17	959.1mV	126.9V	0.021uA	959.3mV	125.5V	0.018uA
18	961.4mV	129.9V	0.015uA	959.4mV	127.8V	0.018uA
19	966.9mV	126.5V	0.014uA	957.1mV	127.5V	0.022uA
20	964.3mV	127.4V	0.024uA	959.8mV	130.9V	0.025uA
21	963.8mV	130.1V	0.019uA	957.2mV	127.3V	0.025uA
22	966.8mV	125.6V	0.021uA	956.6mV	126.8V	0.024uA
23	960.3mV	124.9V	0.024uA	963.0mV	124.9V	0.023uA
24	962.9mV	128.3V	0.018uA	965.0mV	126.6V	0.025uA
25	957.7mV	126.6V	0.010uA	963.1mV	126.1V	0.022uA
26	967.5mV	125.7V	0.022uA	968.4mV	128.9V	0.018uA
27	959.3mV	128.2V	0.016uA	966.1mV	128.3V	0.025uA
28	963.3mV	129.2V	0.020uA	967.0mV	131.0V	0.017uA
29	968.2mV	130.6V	0.022uA	962.5mV	125.7V	0.023uA
30	960.8mV	126.5V	0.020uA	965.0mV	125.8V	0.017uA



SeCoS Corporation

Pressure Cooker Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 121°C, 100%RH, 29.7PSIG, 168Hrs

Test Date: 2014.05.05 ~ 2014.05.11

Test Standard : JESD22 STANDARD Method-A102

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
31	965.3mV	129.2V	0.026uA	966.0mV	127.1V	0.021uA
32	963.6mV	125.6V	0.016uA	959.4mV	126.6V	0.011uA
33	958.7mV	125.8V	0.023uA	964.1mV	130.1V	0.022uA
34	962.3mV	124.9V	0.026uA	967.1mV	126.9V	0.012uA
35	965.9mV	125.8V	0.014uA	967.8mV	125.1V	0.017uA
36	963.4mV	128.5V	0.025uA	961.5mV	125.1V	0.011uA
37	958.2mV	130.7V	0.019uA	963.3mV	126.0V	0.023uA
38	961.0mV	130.6V	0.025uA	966.5mV	129.7V	0.018uA
39	957.9mV	128.6V	0.010uA	959.7mV	128.6V	0.011uA
40	956.6mV	125.9V	0.022uA	958.7mV	125.5V	0.014uA
41	967.4mV	130.8V	0.015uA	958.9mV	125.3V	0.011uA
42	963.0mV	129.3V	0.021uA	957.1mV	128.6V	0.019uA
43	960.4mV	129.6V	0.019uA	957.1mV	128.8V	0.012uA
44	959.6mV	129.8V	0.014uA	968.1mV	128.5V	0.019uA
45	959.5mV	129.2V	0.011uA	967.6mV	125.3V	0.026uA
46	961.4mV	125.7V	0.018uA	962.0mV	129.9V	0.015uA
47	963.7mV	130.7V	0.025uA	964.3mV	127.8V	0.018uA
48	966.8mV	126.5V	0.014uA	968.2mV	125.2V	0.013uA
49	965.3mV	126.0V	0.014uA	966.1mV	124.8V	0.023uA
50	957.9mV	128.2V	0.016uA	959.4mV	128.6V	0.014uA
51	962.9mV	130.6V	0.024uA	960.4mV	126.3V	0.024uA
52	960.4mV	130.4V	0.021uA	957.9mV	130.9V	0.022uA
53	966.8mV	126.6V	0.018uA	968.0mV	127.8V	0.017uA
54	957.4mV	128.1V	0.017uA	967.7mV	125.9V	0.019uA
55	960.7mV	127.2V	0.023uA	966.5mV	128.0V	0.021uA
56	960.1mV	127.8V	0.025uA	964.4mV	128.6V	0.011uA
57	960.4mV	130.1V	0.026uA	956.1mV	130.2V	0.024uA
58	966.8mV	125.5V	0.017uA	958.9mV	130.3V	0.022uA
59	961.9mV	127.5V	0.015uA	963.9mV	129.3V	0.023uA
60	956.6mV	127.4V	0.025uA	963.1mV	127.9V	0.015uA



SeCoS Corporation

Pressure Cooker Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 121°C, 100%RH, 29.7PSIG, 168Hrs

Test Date: 2014.05.05 ~ 2014.05.11

Test Standard : JESD22 STANDARD Method-A102

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
61	961.9mV	125.2V	0.018uA	961.6mV	129.0V	0.016uA
62	962.1mV	126.5V	0.024uA	965.6mV	128.6V	0.022uA
63	957.0mV	125.8V	0.025uA	967.4mV	128.2V	0.015uA
64	965.5mV	127.2V	0.021uA	960.9mV	129.8V	0.025uA
65	959.0mV	127.5V	0.019uA	957.5mV	127.8V	0.026uA
66	958.6mV	129.9V	0.012uA	957.4mV	128.2V	0.015uA
67	966.1mV	129.4V	0.018uA	962.3mV	126.2V	0.016uA
68	958.9mV	129.6V	0.018uA	966.0mV	126.8V	0.014uA
69	962.7mV	128.5V	0.015uA	957.1mV	128.9V	0.011uA
70	961.4mV	129.5V	0.019uA	961.5mV	127.0V	0.018uA
71	967.6mV	127.4V	0.020uA	956.3mV	125.1V	0.016uA
72	960.6mV	130.4V	0.020uA	957.4mV	129.5V	0.016uA
73	957.5mV	128.6V	0.011uA	966.7mV	128.8V	0.020uA
74	966.1mV	129.4V	0.021uA	964.2mV	130.8V	0.020uA
75	957.9mV	126.0V	0.013uA	967.9mV	128.5V	0.017uA
76	961.9mV	127.7V	0.022uA	958.0mV	127.6V	0.016uA
77	957.9mV	128.2V	0.021uA	963.3mV	130.3V	0.012uA

Made By: Leo Hsia

Approval: Peter Yang



SeCoS Corporation

Temperature Cycle Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: -55°C/30min, 150°C/30min, for1000 Cycle

Test Date: 2014.05.05 ~ 2014.06.25

Test Standard : JESD22 STANDARD Method-A104

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
1	956.7mV	127.5V	0.017uA	962.5mV	127.0V	0.024uA
2	964.1mV	125.2V	0.017uA	967.6mV	128.7V	0.017uA
3	968.2mV	126.5V	0.025uA	960.7mV	126.3V	0.017uA
4	965.9mV	126.7V	0.014uA	961.6mV	129.1V	0.022uA
5	958.9mV	129.6V	0.019uA	967.1mV	128.3V	0.020uA
6	958.5mV	127.9V	0.026uA	964.2mV	129.9V	0.022uA
7	961.3mV	127.8V	0.014uA	964.0mV	130.3V	0.013uA
8	956.4mV	127.8V	0.010uA	962.4mV	128.6V	0.017uA
9	964.0mV	125.1V	0.019uA	967.0mV	129.5V	0.023uA
10	966.1mV	131.0V	0.013uA	965.5mV	126.2V	0.017uA
11	967.0mV	130.8V	0.018uA	958.6mV	129.5V	0.016uA
12	958.3mV	127.5V	0.021uA	966.2mV	128.1V	0.012uA
13	963.9mV	129.8V	0.021uA	963.2mV	129.5V	0.017uA
14	956.3mV	129.8V	0.020uA	962.2mV	127.9V	0.025uA
15	956.6mV	130.4V	0.023uA	964.9mV	127.6V	0.017uA
16	963.5mV	126.6V	0.015uA	961.4mV	128.3V	0.026uA
17	957.8mV	127.3V	0.022uA	963.4mV	127.2V	0.021uA
18	966.6mV	127.3V	0.013uA	962.1mV	127.4V	0.022uA
19	960.6mV	126.0V	0.012uA	967.1mV	129.9V	0.022uA
20	963.6mV	128.8V	0.012uA	959.2mV	130.4V	0.011uA
21	965.9mV	125.5V	0.021uA	964.7mV	128.1V	0.015uA
22	964.5mV	129.4V	0.025uA	965.3mV	130.2V	0.011uA
23	967.2mV	128.0V	0.022uA	956.4mV	130.5V	0.014uA
24	963.5mV	125.7V	0.021uA	962.8mV	127.1V	0.024uA
25	966.4mV	125.6V	0.018uA	964.8mV	130.5V	0.024uA
26	963.1mV	130.7V	0.012uA	965.9mV	125.5V	0.019uA
27	957.2mV	130.1V	0.024uA	959.8mV	124.9V	0.012uA
28	967.8mV	128.9V	0.011uA	962.2mV	126.3V	0.020uA
29	965.2mV	126.2V	0.023uA	966.0mV	125.2V	0.025uA
30	966.6mV	126.8V	0.018uA	959.0mV	128.7V	0.015uA



SeCoS Corporation

Temperature Cycle Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: -55°C/30min, 150°C/30min, for1000 Cycle

Test Date: 2014.05.05 ~ 2014.06.25

Test Standard : JESD22 STANDARD Method-A104

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
31	963.3mV	129.5V	0.012uA	962.6mV	130.7V	0.026uA
32	961.7mV	128.9V	0.020uA	959.0mV	129.2V	0.025uA
33	957.0mV	130.2V	0.019uA	963.6mV	130.5V	0.011uA
34	965.8mV	129.2V	0.017uA	965.8mV	129.2V	0.014uA
35	961.2mV	129.3V	0.025uA	958.4mV	129.6V	0.025uA
36	968.3mV	130.6V	0.014uA	956.2mV	129.1V	0.023uA
37	964.7mV	127.7V	0.021uA	956.5mV	128.3V	0.022uA
38	964.1mV	127.9V	0.011uA	966.9mV	130.2V	0.011uA
39	960.1mV	125.9V	0.019uA	958.0mV	127.7V	0.019uA
40	965.3mV	127.2V	0.015uA	962.0mV	126.3V	0.012uA
41	963.7mV	127.1V	0.024uA	963.8mV	127.4V	0.021uA
42	956.3mV	125.8V	0.025uA	965.9mV	127.9V	0.016uA
43	967.7mV	127.8V	0.020uA	964.3mV	129.2V	0.010uA
44	967.6mV	125.9V	0.017uA	957.3mV	126.9V	0.021uA
45	963.7mV	125.3V	0.015uA	959.0mV	127.7V	0.017uA
46	964.0mV	125.3V	0.026uA	960.3mV	129.2V	0.021uA
47	961.3mV	126.2V	0.025uA	963.5mV	130.5V	0.011uA
48	964.9mV	129.4V	0.013uA	967.8mV	125.7V	0.011uA
49	961.4mV	126.9V	0.021uA	964.4mV	125.7V	0.013uA
50	967.7mV	128.9V	0.025uA	957.0mV	126.1V	0.019uA
51	966.4mV	125.7V	0.021uA	959.1mV	128.7V	0.012uA
52	957.9mV	130.0V	0.022uA	961.8mV	127.6V	0.014uA
53	956.7mV	126.8V	0.025uA	968.4mV	129.2V	0.014uA
54	964.6mV	130.3V	0.018uA	957.9mV	128.2V	0.012uA
55	959.4mV	130.4V	0.010uA	956.7mV	125.5V	0.025uA
56	958.9mV	127.5V	0.016uA	965.4mV	126.6V	0.025uA
57	963.5mV	129.6V	0.017uA	959.4mV	128.0V	0.020uA
58	961.8mV	130.3V	0.015uA	963.3mV	126.2V	0.013uA
59	957.8mV	125.7V	0.022uA	964.2mV	128.6V	0.026uA
60	962.9mV	131.1V	0.024uA	967.6mV	129.6V	0.020uA



SeCoS Corporation

Temperature Cycle Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: -55°C/30min, 150°C/30min, for1000 Cycle

Test Date: 2014.05.05 ~ 2014.06.25

Test Standard : JESD22 STANDARD Method-A104

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
61	966.4mV	127.7V	0.018uA	968.1mV	129.3V	0.024uA
62	963.3mV	127.5V	0.012uA	966.5mV	126.8V	0.025uA
63	960.4mV	126.3V	0.021uA	960.1mV	126.4V	0.020uA
64	961.8mV	125.9V	0.020uA	959.1mV	127.4V	0.017uA
65	967.0mV	128.4V	0.021uA	967.4mV	128.9V	0.016uA
66	963.0mV	125.0V	0.023uA	956.8mV	125.2V	0.019uA
67	965.8mV	130.3V	0.010uA	967.4mV	127.5V	0.017uA
68	960.4mV	125.8V	0.024uA	958.2mV	128.0V	0.010uA
69	966.9mV	127.3V	0.019uA	959.2mV	126.7V	0.024uA
70	961.1mV	127.3V	0.023uA	965.1mV	125.9V	0.019uA
71	967.9mV	127.6V	0.014uA	965.4mV	127.0V	0.024uA
72	957.8mV	126.3V	0.012uA	966.1mV	125.6V	0.014uA
73	956.7mV	125.8V	0.012uA	961.7mV	130.0V	0.025uA
74	959.4mV	125.3V	0.019uA	961.4mV	128.1V	0.020uA
75	961.5mV	125.7V	0.020uA	966.9mV	127.1V	0.021uA
76	958.7mV	127.1V	0.022uA	962.8mV	130.9V	0.020uA
77	961.9mV	129.2V	0.020uA	968.0mV	125.0V	0.017uA

Made By: Leo Hsia

Approval: Peter Yang



High Temperature High Humidity Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 85±2°C, 85±5%RH, 1000Hrs

Test Date: 2014.05.11 ~ 2014.06.23

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
1	968.4mV	130.8V	0.012uA	963.4mV	128.2V	0.022uA
2	964.5mV	125.2V	0.024uA	958.6mV	129.7V	0.015uA
3	964.4mV	129.7V	0.017uA	956.4mV	129.4V	0.018uA
4	966.5mV	130.3V	0.021uA	960.5mV	126.7V	0.014uA
5	959.6mV	126.6V	0.024uA	968.1mV	130.5V	0.020uA
6	962.6mV	129.5V	0.013uA	964.8mV	131.0V	0.011uA
7	957.9mV	126.8V	0.024uA	961.7mV	129.5V	0.013uA
8	960.1mV	129.6V	0.025uA	965.9mV	127.7V	0.018uA
9	963.7mV	125.4V	0.016uA	967.1mV	128.7V	0.023uA
10	965.6mV	126.5V	0.011uA	960.4mV	130.8V	0.024uA
11	963.7mV	128.6V	0.019uA	959.0mV	127.9V	0.016uA
12	961.0mV	128.8V	0.013uA	963.2mV	127.5V	0.012uA
13	963.5mV	128.0V	0.017uA	965.9mV	130.2V	0.014uA
14	958.2mV	129.7V	0.021uA	956.6mV	126.6V	0.019uA
15	968.0mV	128.1V	0.013uA	966.2mV	128.0V	0.025uA
16	961.3mV	125.9V	0.024uA	965.2mV	127.9V	0.016uA
17	958.7mV	130.5V	0.018uA	965.0mV	127.1V	0.015uA
18	959.7mV	128.8V	0.018uA	961.0mV	128.0V	0.022uA
19	962.7mV	124.8V	0.025uA	964.6mV	127.1V	0.022uA
20	961.9mV	128.6V	0.016uA	958.7mV	129.2V	0.025uA
21	966.7mV	129.7V	0.012uA	963.9mV	125.5V	0.022uA
22	960.9mV	131.1V	0.012uA	957.8mV	130.4V	0.012uA
23	966.3mV	128.9V	0.020uA	959.5mV	130.6V	0.025uA
24	958.6mV	130.6V	0.022uA	957.8mV	130.6V	0.013uA
25	966.9mV	125.0V	0.022uA	963.6mV	130.8V	0.022uA
26	965.7mV	129.4V	0.013uA	965.7mV	126.0V	0.020uA
27	957.2mV	125.5V	0.022uA	962.5mV	126.7V	0.025uA
28	957.7mV	125.5V	0.016uA	963.5mV	130.5V	0.020uA
29	961.9mV	129.7V	0.010uA	967.6mV	127.9V	0.012uA
30	963.9mV	127.3V	0.014uA	964.7mV	127.1V	0.013uA



High Temperature High Humidity Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 85±2°C, 85±5%RH, 1000Hrs

Test Date: 2014.05.11 ~ 2014.06.23

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
31	957.2mV	130.2V	0.022uA	959.1mV	130.8V	0.011uA
32	966.5mV	129.3V	0.025uA	964.8mV	130.6V	0.025uA
33	958.1mV	130.2V	0.011uA	960.0mV	128.1V	0.026uA
34	958.4mV	126.9V	0.012uA	958.6mV	127.6V	0.015uA
35	957.5mV	129.1V	0.016uA	959.1mV	125.0V	0.018uA
36	965.3mV	124.8V	0.025uA	966.6mV	126.0V	0.024uA
37	963.1mV	130.8V	0.016uA	956.8mV	130.8V	0.020uA
38	960.6mV	125.0V	0.018uA	963.7mV	125.4V	0.026uA
39	962.8mV	125.4V	0.016uA	956.5mV	125.0V	0.015uA
40	965.5mV	128.1V	0.023uA	961.5mV	128.3V	0.010uA
41	965.1mV	125.3V	0.010uA	956.3mV	125.5V	0.019uA
42	960.9mV	127.1V	0.020uA	965.6mV	129.9V	0.012uA
43	957.2mV	128.7V	0.022uA	962.7mV	128.3V	0.012uA
44	962.4mV	129.9V	0.012uA	956.4mV	129.8V	0.014uA
45	956.5mV	127.0V	0.017uA	965.4mV	127.4V	0.010uA
46	966.0mV	125.2V	0.011uA	961.3mV	130.9V	0.024uA
47	960.9mV	129.4V	0.022uA	967.3mV	124.8V	0.013uA
48	958.2mV	126.1V	0.023uA	964.7mV	130.1V	0.025uA
49	962.4mV	128.6V	0.023uA	959.6mV	125.2V	0.022uA
50	967.0mV	128.3V	0.015uA	965.2mV	130.2V	0.019uA
51	964.3mV	124.8V	0.012uA	966.8mV	125.8V	0.016uA
52	959.4mV	130.9V	0.021uA	960.8mV	127.4V	0.013uA
53	963.8mV	128.9V	0.019uA	964.0mV	127.5V	0.024uA
54	956.3mV	130.0V	0.010uA	959.6mV	128.4V	0.020uA
55	957.6mV	127.2V	0.017uA	956.4mV	127.2V	0.013uA
56	960.3mV	130.0V	0.021uA	959.1mV	131.1V	0.025uA
57	962.8mV	128.7V	0.022uA	959.3mV	130.5V	0.013uA
58	958.7mV	127.4V	0.018uA	960.3mV	128.9V	0.015uA
59	958.7mV	129.2V	0.020uA	968.3mV	124.9V	0.016uA
60	961.1mV	128.7V	0.016uA	960.5mV	130.0V	0.023uA



High Temperature High Humidity Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 85±2°C, 85±5%RH, 1000Hrs

Test Date: 2014.05.11 ~ 2014.06.23

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
61	966.7mV	126.5V	0.022uA	967.2mV	127.5V	0.018uA
62	958.0mV	125.0V	0.020uA	962.0mV	127.6V	0.019uA
63	959.6mV	125.7V	0.024uA	958.6mV	125.3V	0.021uA
64	960.4mV	127.5V	0.019uA	958.9mV	126.0V	0.020uA
65	960.6mV	126.5V	0.025uA	963.9mV	125.9V	0.019uA
66	966.0mV	131.0V	0.018uA	966.7mV	127.0V	0.023uA
67	963.7mV	130.1V	0.011uA	956.1mV	128.6V	0.010uA
68	968.3mV	126.8V	0.014uA	960.5mV	125.3V	0.012uA
69	962.5mV	125.9V	0.020uA	965.3mV	130.2V	0.025uA
70	965.1mV	124.9V	0.018uA	959.2mV	130.2V	0.010uA
71	960.3mV	125.5V	0.019uA	959.0mV	124.8V	0.022uA
72	966.8mV	130.7V	0.018uA	959.4mV	129.6V	0.019uA
73	957.4mV	128.5V	0.011uA	964.5mV	130.2V	0.011uA
74	963.6mV	128.9V	0.023uA	962.8mV	125.9V	0.014uA
75	966.9mV	125.2V	0.026uA	966.7mV	128.4V	0.014uA
76	961.8mV	128.3V	0.026uA	962.3mV	125.3V	0.017uA
77	963.5mV	125.8V	0.020uA	965.4mV	125.4V	0.020uA

Made By: Leo Hsia

Approval: Peter Yang



High Temper High Humidity Reverse Bies Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 85±2°C, 85±5%RH, 1000Hrs

Test Date: 2014.05.11 ~ 2014.06.23

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
1	961.9mV	131.1V	0.023uA	961.4mV	126.7V	0.025uA
2	957.9mV	125.5V	0.026uA	961.1mV	126.3V	0.014uA
3	965.2mV	129.7V	0.017uA	960.2mV	125.6V	0.016uA
4	962.6mV	128.0V	0.024uA	959.8mV	127.6V	0.013uA
5	956.7mV	129.5V	0.025uA	959.7mV	131.0V	0.012uA
6	966.2mV	129.4V	0.016uA	965.1mV	126.5V	0.010uA
7	966.4mV	125.8V	0.012uA	956.3mV	125.2V	0.012uA
8	964.0mV	125.4V	0.020uA	959.0mV	126.8V	0.023uA
9	957.0mV	128.9V	0.016uA	962.5mV	130.5V	0.012uA
10	958.1mV	127.7V	0.012uA	963.2mV	128.6V	0.011uA
11	958.9mV	125.6V	0.011uA	960.4mV	131.0V	0.025uA
12	958.7mV	126.3V	0.013uA	967.1mV	129.4V	0.015uA
13	964.9mV	128.0V	0.020uA	963.0mV	125.0V	0.021uA
14	958.1mV	127.8V	0.013uA	962.8mV	130.1V	0.013uA
15	967.4mV	126.4V	0.022uA	966.0mV	125.3V	0.018uA
16	959.9mV	131.0V	0.010uA	964.3mV	130.3V	0.022uA
17	957.1mV	127.4V	0.020uA	965.5mV	127.3V	0.017uA
18	968.4mV	130.6V	0.010uA	967.2mV	124.8V	0.017uA
19	965.8mV	128.5V	0.014uA	967.5mV	128.5V	0.026uA
20	959.1mV	125.0V	0.024uA	957.1mV	127.6V	0.013uA
21	956.8mV	124.7V	0.011uA	966.6mV	130.9V	0.019uA
22	966.1mV	129.8V	0.015uA	963.5mV	126.1V	0.011uA
23	962.0mV	127.9V	0.023uA	964.8mV	125.9V	0.023uA
24	958.1mV	127.3V	0.014uA	965.0mV	130.4V	0.020uA
25	966.3mV	128.4V	0.013uA	960.6mV	129.6V	0.017uA
26	966.8mV	130.2V	0.020uA	967.6mV	129.3V	0.023uA
27	959.4mV	124.9V	0.019uA	957.6mV	131.0V	0.013uA
28	961.1mV	129.7V	0.014uA	957.6mV	125.2V	0.019uA
29	965.9mV	126.2V	0.015uA	965.7mV	127.3V	0.020uA
30	968.4mV	128.7V	0.021uA	961.6mV	129.8V	0.020uA



High Temper High Humidity Reverse Bies Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 85±2°C, 85±5%RH, 1000Hrs

Test Date: 2014.05.11 ~ 2014.06.23

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
31	964.9mV	130.4V	0.014uA	966.3mV	130.4V	0.020uA
32	968.1mV	127.1V	0.013uA	956.6mV	125.6V	0.018uA
33	957.6mV	128.8V	0.011uA	960.3mV	129.6V	0.020uA
34	965.9mV	131.1V	0.011uA	965.3mV	131.1V	0.021uA
35	962.7mV	128.5V	0.013uA	956.2mV	127.2V	0.014uA
36	960.1mV	130.6V	0.010uA	965.3mV	127.3V	0.024uA
37	963.1mV	131.0V	0.023uA	960.8mV	126.4V	0.015uA
38	961.9mV	126.2V	0.021uA	965.1mV	125.6V	0.023uA
39	957.1mV	131.0V	0.017uA	960.4mV	129.7V	0.026uA
40	966.7mV	128.4V	0.021uA	965.6mV	125.3V	0.024uA
41	961.4mV	125.1V	0.017uA	963.1mV	127.6V	0.014uA
42	958.6mV	128.7V	0.015uA	957.6mV	127.5V	0.016uA
43	960.4mV	126.2V	0.011uA	963.7mV	127.1V	0.025uA
44	962.0mV	127.6V	0.021uA	964.9mV	129.0V	0.019uA
45	968.4mV	129.5V	0.013uA	963.1mV	130.7V	0.023uA
46	957.9mV	126.1V	0.018uA	959.4mV	128.7V	0.015uA
47	961.6mV	124.8V	0.026uA	965.7mV	124.7V	0.024uA
48	962.4mV	128.0V	0.011uA	966.0mV	126.0V	0.023uA
49	966.0mV	127.8V	0.026uA	962.8mV	125.4V	0.018uA
50	963.9mV	126.2V	0.015uA	961.9mV	126.0V	0.017uA
51	966.4mV	127.3V	0.015uA	958.5mV	130.2V	0.025uA
52	962.9mV	126.6V	0.013uA	964.2mV	130.5V	0.016uA
53	968.0mV	126.4V	0.011uA	968.0mV	126.1V	0.013uA
54	963.8mV	130.2V	0.017uA	967.3mV	125.1V	0.023uA
55	958.6mV	126.0V	0.015uA	966.1mV	130.0V	0.017uA
56	967.6mV	126.9V	0.019uA	962.2mV	126.8V	0.016uA
57	958.2mV	130.9V	0.014uA	966.8mV	130.3V	0.018uA
58	966.7mV	125.1V	0.020uA	961.9mV	126.2V	0.016uA
59	958.3mV	126.1V	0.024uA	959.2mV	126.9V	0.011uA
60	961.2mV	128.7V	0.020uA	967.4mV	124.9V	0.013uA



High Temper High Humidity Reverse Bies Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 85±2°C, 85±5%RH, 1000Hrs

Test Date: 2014.05.11 ~ 2014.06.23

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
61	957.7mV	129.1V	0.015uA	960.0mV	124.9V	0.022uA
62	959.3mV	129.0V	0.013uA	957.5mV	127.0V	0.024uA
63	961.9mV	128.7V	0.025uA	958.4mV	128.2V	0.024uA
64	960.1mV	128.4V	0.015uA	967.3mV	129.5V	0.025uA
65	961.7mV	130.8V	0.015uA	964.1mV	126.4V	0.019uA
66	967.7mV	130.5V	0.020uA	965.1mV	130.7V	0.011uA
67	966.6mV	125.2V	0.020uA	958.6mV	127.1V	0.016uA
68	960.1mV	130.2V	0.025uA	956.7mV	129.3V	0.017uA
69	964.5mV	125.9V	0.025uA	960.5mV	128.5V	0.017uA
70	960.5mV	130.8V	0.011uA	967.1mV	126.0V	0.021uA
71	960.1mV	129.0V	0.022uA	961.4mV	130.6V	0.017uA
72	966.0mV	125.0V	0.016uA	962.5mV	125.1V	0.020uA
73	962.5mV	125.3V	0.017uA	966.6mV	130.1V	0.017uA
74	963.9mV	127.8V	0.020uA	960.8mV	125.1V	0.012uA
75	964.2mV	130.7V	0.012uA	962.0mV	130.0V	0.023uA
76	966.5mV	126.1V	0.022uA	959.1mV	127.0V	0.026uA
77	957.4mV	127.7V	0.014uA	962.6mV	125.2V	0.024uA

Made By: Leo Hsia

Approval: Peter Yang



SeCoS Corporation

Solderability Test Data

Report No : T140630-038

Part No : BAV99BRW

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<1250mV@IF=150mA, VB>75V@I=100uA, IR<2.5uA@VR=70V

Test Condition: 245°C ± 5°C, 5Sec

Test Date: 2014.06.28 ~ 2014.06.28

Test Standard : JESD22 STANDER Method-B102

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
1	959.5mV	127.4V	0.025uA	956.9mV	130.1V	0.019uA
2	965.3mV	128.3V	0.016uA	962.4mV	130.6V	0.018uA
3	957.9mV	124.9V	0.012uA	962.7mV	129.3V	0.015uA
4	962.5mV	126.5V	0.023uA	965.0mV	127.0V	0.024uA
5	957.6mV	125.3V	0.025uA	959.3mV	125.8V	0.018uA
6	957.5mV	125.9V	0.014uA	958.4mV	128.7V	0.017uA
7	961.6mV	126.4V	0.012uA	956.6mV	128.7V	0.026uA
8	958.0mV	126.7V	0.017uA	968.1mV	125.8V	0.016uA
9	966.6mV	127.0V	0.012uA	966.2mV	130.0V	0.015uA
10	967.4mV	129.8V	0.012uA	965.1mV	129.9V	0.021uA

Made By: Leo Hsia

Approval: Peter Yang