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Product/Process Change Notification

PCN#	Effective Date	Issue Date
2015-04-01C-03	2015/10/1	2015/4/1

PCN Classification	Product Category
Major	Small Signal Switching

Subject
Changing lead frame

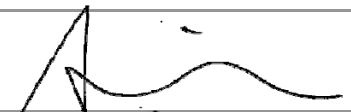
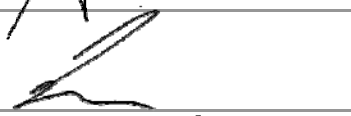
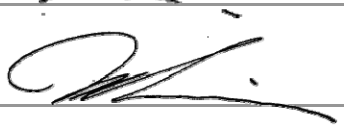
Affected Product(s)
BAV16P

Description of Change(s)
In order to enhance the effectiveness of the product, to achieve the better electrical conductivity of the copper lead frame

Content of Change(s)
Changing lead frame from Iron-nickel to copper

Impact(s)
N/A

Attachment(s)
Reliability Teat Report. SGS Report. MSDS 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

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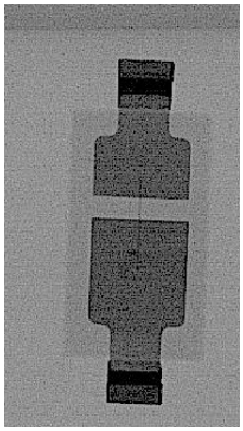
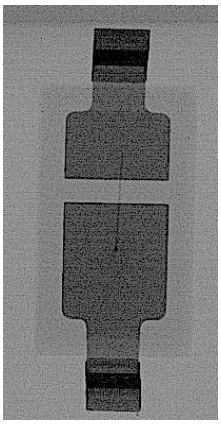
Exterior comparison Chart

Original (Iron-Nickel)	New (Copper)
 Top View	 Top View

Material comparison Chart

Original (Iron-Nickel)

Material Composition	Iron-Nickel
Cu	
Fe	Balance
Si	≤0.30
Mn	≤0.8
Ni	40.5～42.5
S	≤0.025
P	≤0.025
Zn	
Al	≤0.1
Cr	≤0.1
Pb	
C	≤0.05

New (Copper)

Material Composition	Copper
Cu	Balance
Fe	
Si	
Mn	
Ni	0.7～0.9
S	
P	
Zn	1.0～2.0
Al	0.02-0.09
Cr	
Pb	
C	

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Reliability Testing Summary Report

Date: 2015/03/31 Document No.: SI15 -03- 13

Test Item	P/N	Test Condition	(LTPD)	Sample Numbers	Allow Fall Numbers	Fall Numbers	Result
HTRB High Temp Reverse Bias	BAV16P	150 ± 5℃, 80%VR, T = 1000hrs		77	0	0	ACC
HTSL High Temperature Storage Life	BAV16P	150℃, T = 1000 hrs		77	0	0	ACC
PCT Pressure Cooker Test	BAV16P	121℃, 29.7PSIG, 168 hrs		77	0	0	ACC
TCT Temperature Cycle Test	BAV16P	-55℃/30min, 150℃/30min, For 1000 Cycle		77	0	0	ACC
THT High Temperature High Humidity Test	BAV16P	85 ± 2℃, RH=85±5%, 1000 hrs		77	0	0	ACC
H3TRB High Temper High Humidity Reverse Bies Test	BAV16P	85 ± 2℃, RH=85±5%, 1000 hrs		77	0	0	ACC
Solderability	BAV16P	245 ± 5℃, 5Sec the inspected area of each lead must have 95% solder coverage minimum		10	0	0	ACC

Judgment:

■ **qualified** □ **unqualified**

Testing Start Date: 2015.02.02 Testing End Date: 2015.03.31

Tester: King Huang Approval: Peter Yang

SeCoS Corporation

Electrical Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 25℃
Test Date: 2015.02.02
Test Standard : Specifications
Operator: Leo Hsia

Test Result: PASS

No	VF (mV)	VB (V)	IR (uA)
1	935mV	154.9V	0.017uA
2	932mV	154.0V	0.017uA
3	934mV	154.2V	0.016uA
4	934mV	155.2V	0.016uA
5	931mV	150.4V	0.012uA
6	932mV	156.1V	0.012uA
7	923mV	128.9V	0.012uA
8	931mV	142.3V	0.013uA
9	930mV	154.0V	0.011uA
10	929mV	149.0V	0.014uA
11	931mV	150.4V	0.012uA
12	934mV	152.9V	0.016uA
13	930mV	146.1V	0.015uA
14	933mV	155.6V	0.013uA
15	936mV	158.9V	0.015uA
16	932mV	157.1V	0.010uA
17	933mV	156.0V	0.013uA
18	934mV	156.1V	0.012uA
19	933mV	155.6V	0.018uA
20	931mV	153.1V	0.011uA
21	931mV	149.2V	0.013uA
22	933mV	157.0V	0.014uA
23	930mV	147.9V	0.013uA
24	930mV	147.7V	0.014uA
25	935mV	155.4V	0.015uA
26	930mV	145.5V	0.017uA
27	934mV	155.5V	0.012uA
28	933mV	157.2V	0.014uA
29	934mV	153.1V	0.015uA
30	932mV	155.7V	0.014uA
31	933mV	154.6V	0.014uA

SeCoS Corporation

Electrical Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 25℃
Test Date: 2015.02.02
Test Standard : Specifications
Operator: Leo Hsia

Test Result: PASS

No	VF (mV)	VB (V)	IR (uA)
32	932mV	153.3V	0.013uA
33	931mV	152.5V	0.013uA
34	935mV	160.1V	0.014uA
35	934mV	158.9V	0.014uA
36	936mV	160.2V	0.016uA
37	933mV	154.2V	0.012uA
38	934mV	154.3V	0.014uA
39	932mV	158.0V	0.016uA
40	933mV	155.0V	0.014uA
41	930mV	149.7V	0.015uA
42	934mV	156.7V	0.013uA
43	933mV	158.3V	0.014uA
44	930mV	150.9V	0.016uA
45	928mV	151.6V	0.014uA
46	934mV	154.9V	0.014uA
47	929mV	149.3V	0.014uA
48	935mV	157.3V	0.014uA
49	932mV	154.3V	0.014uA
50	933mV	150.8V	0.012uA
51	930mV	147.1V	0.012uA
52	934mV	154.2V	0.014uA
53	934mV	153.4V	0.013uA
54	936mV	157.4V	0.014uA
55	935mV	157.0V	0.012uA
56	932mV	156.3V	0.013uA
57	932mV	156.6V	0.016uA
58	930mV	150.2V	0.014uA
59	934mV	155.1V	0.013uA
60	933mV	152.0V	0.012uA
61	931mV	155.2V	0.012uA
62	935mV	156.4V	0.014uA

SeCoS Corporation

Electrical Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 25℃
Test Date: 2015.02.02
Test Standard : Specifications
Operator: Leo Hsia

Test Result: PASS

No	VF (mV)	VB (V)	IR (uA)
63	937mV	160.2V	0.013uA
64	933mV	155.3V	0.014uA
65	935mV	155.1V	0.014uA
66	936mV	158.1V	0.014uA
67	934mV	155.2V	0.013uA
68	931mV	147.7V	0.015uA
69	930mV	146.9V	0.013uA
70	934mV	153.9V	0.012uA
71	934mV	155.7V	0.014uA
72	930mV	139.7V	0.015uA
73	929mV	145.6V	0.015uA
74	935mV	159.6V	0.016uA
75	926mV	133.0V	0.012uA
76	932mV	146.9V	0.012uA
77	932mV	155.2V	0.011uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

High Temperature Reverse Bias Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 150 ± 5℃, 80%VR, T = 1000 hrs
Test Date: 2015.02.02 ~ 2015.03.16
Test Standard : JESD22 STANDARD Method-A108
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
1	935.5mV	146.6V	0.018uA	934.0mV	154.5V	0.011uA
2	925.5mV	143.7V	0.014uA	926.2mV	143.3V	0.017uA
3	934.0mV	142.3V	0.017uA	934.5mV	151.7V	0.009uA
4	924.2mV	149.1V	0.013uA	926.5mV	133.2V	0.012uA
5	926.3mV	141.0V	0.013uA	935.6mV	155.6V	0.018uA
6	929.8mV	136.3V	0.016uA	930.4mV	138.5V	0.012uA
7	925.3mV	138.3V	0.013uA	924.7mV	148.7V	0.016uA
8	933.1mV	135.2V	0.011uA	926.2mV	142.2V	0.018uA
9	928.7mV	142.3V	0.014uA	927.3mV	137.3V	0.010uA
10	927.5mV	142.2V	0.011uA	926.6mV	156.7V	0.013uA
11	934.5mV	159.8V	0.013uA	924.1mV	148.4V	0.011uA
12	930.9mV	135.9V	0.017uA	926.2mV	152.5V	0.013uA
13	935.2mV	152.3V	0.017uA	936.3mV	150.7V	0.012uA
14	935.8mV	149.6V	0.012uA	927.6mV	144.7V	0.012uA
15	934.9mV	134.6V	0.016uA	925.5mV	153.0V	0.012uA
16	928.8mV	139.3V	0.016uA	924.9mV	153.9V	0.014uA
17	930.3mV	136.3V	0.017uA	923.3mV	143.6V	0.012uA
18	927.8mV	138.4V	0.010uA	934.1mV	159.3V	0.012uA
19	925.6mV	145.3V	0.011uA	927.3mV	159.2V	0.015uA
20	927.6mV	140.6V	0.017uA	924.9mV	141.1V	0.010uA
21	935.7mV	149.0V	0.016uA	932.6mV	143.4V	0.014uA
22	924.7mV	159.8V	0.013uA	932.2mV	140.8V	0.011uA
23	935.3mV	135.2V	0.018uA	932.7mV	153.8V	0.011uA
24	923.1mV	151.7V	0.015uA	936.5mV	158.9V	0.014uA
25	927.3mV	136.6V	0.017uA	931.5mV	133.6V	0.017uA
26	926.5mV	150.8V	0.016uA	935.2mV	156.3V	0.015uA
27	924.0mV	152.1V	0.013uA	934.2mV	143.2V	0.010uA
28	923.2mV	142.8V	0.014uA	930.6mV	144.2V	0.014uA
29	930.6mV	141.3V	0.018uA	924.3mV	154.6V	0.016uA
30	934.2mV	150.0V	0.014uA	929.8mV	153.1V	0.016uA

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High Temperature Reverse Bias Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 150 ± 5℃, 80%VR, T = 1000 hrs
Test Date: 2015.02.02 ~ 2015.03.16
Test Standard : JESD22 STANDARD Method-A108
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
31	925.7mV	144.6V	0.016uA	926.8mV	158.6V	0.017uA
32	929.1mV	156.8V	0.011uA	926.7mV	156.2V	0.010uA
33	934.6mV	134.3V	0.009uA	929.9mV	152.9V	0.010uA
34	928.5mV	135.3V	0.015uA	928.2mV	156.4V	0.013uA
35	935.8mV	133.9V	0.017uA	926.2mV	135.8V	0.018uA
36	927.2mV	157.6V	0.018uA	926.6mV	149.0V	0.015uA
37	934.7mV	143.0V	0.017uA	931.5mV	159.1V	0.013uA
38	930.1mV	140.1V	0.018uA	929.7mV	151.9V	0.012uA
39	932.5mV	137.9V	0.017uA	932.3mV	154.4V	0.015uA
40	932.5mV	144.4V	0.009uA	926.7mV	140.5V	0.011uA
41	930.2mV	149.5V	0.016uA	927.8mV	153.2V	0.018uA
42	935.6mV	149.8V	0.014uA	927.7mV	150.4V	0.018uA
43	923.3mV	155.3V	0.015uA	936.8mV	146.7V	0.009uA
44	936.7mV	144.4V	0.013uA	929.0mV	145.8V	0.012uA
45	932.4mV	136.0V	0.015uA	935.3mV	136.2V	0.017uA
46	923.9mV	158.1V	0.014uA	926.1mV	155.3V	0.012uA
47	928.2mV	148.8V	0.011uA	933.1mV	154.0V	0.014uA
48	926.5mV	145.1V	0.017uA	930.3mV	149.7V	0.017uA
49	928.5mV	150.5V	0.012uA	924.0mV	144.8V	0.012uA
50	933.1mV	152.7V	0.017uA	930.1mV	158.6V	0.015uA
51	930.4mV	140.7V	0.016uA	929.8mV	152.6V	0.016uA
52	929.4mV	138.8V	0.009uA	934.5mV	136.6V	0.012uA
53	935.6mV	135.6V	0.010uA	925.5mV	140.3V	0.017uA
54	930.2mV	142.0V	0.017uA	933.0mV	144.1V	0.012uA
55	925.8mV	146.2V	0.017uA	936.5mV	137.8V	0.017uA
56	932.7mV	154.4V	0.011uA	936.7mV	136.5V	0.012uA
57	935.2mV	157.9V	0.012uA	930.4mV	142.3V	0.016uA
58	929.4mV	152.0V	0.014uA	928.1mV	133.3V	0.012uA
59	936.6mV	141.7V	0.011uA	928.8mV	155.2V	0.009uA
60	932.0mV	157.8V	0.014uA	933.4mV	137.8V	0.016uA

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High Temperature Reverse Bias Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 150 ± 5℃, 80%VR, T = 1000 hrs
Test Date: 2015.02.02 ~ 2015.03.16
Test Standard : JESD22 STANDARD Method-A108
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
61	933.4mV	149.3V	0.013uA	936.8mV	159.9V	0.010uA
62	926.2mV	151.9V	0.011uA	931.1mV	138.8V	0.017uA
63	926.9mV	151.0V	0.012uA	933.3mV	142.7V	0.010uA
64	935.3mV	143.8V	0.012uA	932.8mV	146.0V	0.016uA
65	932.2mV	138.2V	0.012uA	923.4mV	139.6V	0.017uA
66	934.3mV	155.9V	0.014uA	923.6mV	145.1V	0.017uA
67	934.4mV	147.8V	0.015uA	930.6mV	148.2V	0.012uA
68	933.3mV	145.5V	0.014uA	929.1mV	151.8V	0.013uA
69	932.8mV	136.9V	0.014uA	924.4mV	136.0V	0.010uA
70	935.9mV	143.5V	0.014uA	923.3mV	150.6V	0.013uA
71	936.5mV	134.1V	0.016uA	935.8mV	148.9V	0.016uA
72	925.1mV	147.3V	0.016uA	929.7mV	141.0V	0.010uA
73	934.6mV	134.6V	0.015uA	933.4mV	140.1V	0.009uA
74	925.8mV	155.8V	0.016uA	923.9mV	142.3V	0.011uA
75	930.7mV	156.5V	0.015uA	924.0mV	135.0V	0.014uA
76	932.3mV	143.7V	0.017uA	930.5mV	138.8V	0.013uA
77	935.9mV	147.0V	0.010uA	928.5mV	155.5V	0.011uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

High Temperature Storage Life Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 150℃, 1000Hrs
Test Date: 2015.02.02 ~ 2015.03.16
Test Standard : JESD22 STANDARD Method-A103
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
1	923.6mV	137.5V	0.014uA	928.0mV	147.5V	0.011uA
2	935.9mV	152.7V	0.011uA	931.8mV	144.9V	0.016uA
3	932.0mV	149.9V	0.018uA	930.7mV	143.1V	0.010uA
4	925.3mV	141.5V	0.018uA	934.2mV	139.8V	0.012uA
5	926.9mV	139.6V	0.014uA	934.7mV	156.9V	0.017uA
6	923.3mV	133.2V	0.011uA	924.6mV	140.0V	0.010uA
7	935.7mV	152.8V	0.016uA	935.7mV	142.2V	0.017uA
8	932.4mV	146.0V	0.010uA	925.8mV	136.5V	0.015uA
9	933.4mV	133.3V	0.018uA	930.7mV	136.8V	0.017uA
10	930.3mV	152.8V	0.011uA	928.9mV	145.2V	0.015uA
11	924.0mV	155.5V	0.014uA	925.1mV	139.6V	0.016uA
12	927.1mV	138.3V	0.010uA	936.0mV	150.6V	0.016uA
13	923.1mV	146.1V	0.018uA	934.1mV	135.7V	0.013uA
14	929.1mV	140.7V	0.015uA	927.2mV	135.9V	0.011uA
15	935.6mV	147.5V	0.010uA	926.8mV	145.2V	0.015uA
16	934.9mV	134.3V	0.013uA	930.6mV	154.6V	0.016uA
17	927.5mV	146.3V	0.016uA	936.8mV	153.0V	0.014uA
18	926.4mV	153.2V	0.011uA	929.1mV	148.1V	0.018uA
19	933.5mV	146.2V	0.016uA	925.0mV	153.4V	0.010uA
20	931.2mV	147.3V	0.013uA	936.9mV	140.8V	0.014uA
21	930.6mV	147.5V	0.018uA	931.5mV	145.3V	0.011uA
22	926.7mV	137.0V	0.010uA	926.6mV	155.7V	0.016uA
23	932.1mV	133.9V	0.016uA	935.8mV	155.4V	0.009uA
24	926.6mV	140.7V	0.018uA	928.8mV	153.1V	0.011uA
25	931.5mV	137.4V	0.018uA	931.4mV	160.2V	0.011uA
26	930.0mV	160.3V	0.011uA	936.6mV	157.3V	0.010uA
27	929.1mV	139.8V	0.011uA	927.1mV	159.7V	0.012uA
28	935.8mV	146.7V	0.015uA	927.8mV	147.5V	0.014uA
29	934.8mV	145.9V	0.012uA	934.3mV	133.6V	0.012uA
30	929.0mV	159.4V	0.014uA	929.4mV	135.0V	0.017uA

SeCoS Corporation

High Temperature Storage Life Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 150℃, 1000Hrs
Test Date: 2015.02.02 ~ 2015.03.16
Test Standard : JESD22 STANDARD Method-A103
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
31	929.5mV	148.9V	0.016uA	924.6mV	156.8V	0.009uA
32	934.2mV	154.3V	0.017uA	926.0mV	153.8V	0.009uA
33	929.3mV	144.6V	0.016uA	932.9mV	139.1V	0.012uA
34	930.9mV	159.0V	0.016uA	929.1mV	140.5V	0.012uA
35	935.3mV	146.7V	0.013uA	924.6mV	135.9V	0.011uA
36	924.9mV	150.0V	0.012uA	928.5mV	145.5V	0.013uA
37	936.7mV	148.9V	0.012uA	930.9mV	157.4V	0.015uA
38	932.7mV	150.1V	0.018uA	924.1mV	156.0V	0.011uA
39	935.5mV	138.6V	0.012uA	926.6mV	138.6V	0.012uA
40	925.7mV	156.1V	0.016uA	934.7mV	148.9V	0.016uA
41	928.3mV	136.3V	0.014uA	932.4mV	151.1V	0.013uA
42	926.2mV	139.8V	0.014uA	932.7mV	142.0V	0.011uA
43	924.6mV	149.9V	0.013uA	923.8mV	156.0V	0.018uA
44	936.0mV	156.5V	0.012uA	931.3mV	145.4V	0.012uA
45	933.0mV	136.2V	0.011uA	932.4mV	148.1V	0.017uA
46	932.7mV	145.5V	0.013uA	931.5mV	155.2V	0.010uA
47	925.6mV	142.4V	0.010uA	924.9mV	138.4V	0.012uA
48	925.7mV	144.2V	0.016uA	931.7mV	151.8V	0.017uA
49	926.2mV	149.8V	0.015uA	926.6mV	145.4V	0.013uA
50	924.1mV	156.0V	0.011uA	925.7mV	148.0V	0.014uA
51	925.0mV	157.2V	0.011uA	934.2mV	150.3V	0.016uA
52	923.3mV	141.1V	0.015uA	936.2mV	154.7V	0.015uA
53	933.0mV	149.1V	0.013uA	926.4mV	136.3V	0.018uA
54	925.4mV	154.3V	0.013uA	923.7mV	149.1V	0.016uA
55	925.1mV	139.7V	0.015uA	925.8mV	134.1V	0.014uA
56	936.3mV	156.0V	0.012uA	923.2mV	160.3V	0.017uA
57	936.6mV	137.7V	0.012uA	925.7mV	140.5V	0.009uA
58	930.0mV	156.5V	0.012uA	935.2mV	141.9V	0.014uA
59	932.8mV	160.2V	0.010uA	930.3mV	158.9V	0.017uA
60	934.2mV	134.3V	0.017uA	929.0mV	146.2V	0.010uA

SeCoS Corporation

High Temperature Storage Life Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 150℃, 1000Hrs
Test Date: 2015.02.02 ~ 2015.03.16
Test Standard : JESD22 STANDARD Method-A103
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
61	923.2mV	146.5V	0.013uA	934.8mV	153.3V	0.015uA
62	924.0mV	152.2V	0.015uA	936.0mV	155.6V	0.013uA
63	934.4mV	154.1V	0.012uA	924.9mV	145.7V	0.009uA
64	924.1mV	153.7V	0.010uA	925.4mV	134.4V	0.015uA
65	935.9mV	135.4V	0.015uA	933.1mV	135.9V	0.018uA
66	932.6mV	134.0V	0.017uA	923.9mV	149.3V	0.018uA
67	929.3mV	137.3V	0.010uA	924.6mV	153.4V	0.013uA
68	923.7mV	134.8V	0.012uA	925.0mV	153.2V	0.009uA
69	923.2mV	143.1V	0.013uA	924.8mV	144.3V	0.010uA
70	934.6mV	155.4V	0.011uA	924.2mV	140.8V	0.014uA
71	929.2mV	158.2V	0.017uA	930.9mV	146.8V	0.011uA
72	931.0mV	140.7V	0.017uA	926.2mV	146.3V	0.016uA
73	935.8mV	148.7V	0.014uA	927.5mV	139.5V	0.014uA
74	931.7mV	138.5V	0.011uA	926.7mV	155.5V	0.011uA
75	930.3mV	146.0V	0.012uA	934.0mV	141.2V	0.010uA
76	937.0mV	137.8V	0.010uA	925.7mV	144.5V	0.011uA
77	934.6mV	147.7V	0.016uA	928.0mV	156.7V	0.014uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

Pressure Cooker Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 121℃, 100%RH, 29.7PSIG, 168Hrs
Test Date: 2015.02.02 ~ 2015.02.10
Test Standard : JESD22 STANDARD Method-A102
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
1	925.0mV	143.0V	0.010uA	933.6mV	146.2V	0.013uA
2	933.4mV	146.4V	0.013uA	936.2mV	143.7V	0.015uA
3	927.6mV	140.7V	0.015uA	927.1mV	143.3V	0.018uA
4	929.7mV	133.4V	0.010uA	936.2mV	158.6V	0.016uA
5	936.0mV	148.2V	0.010uA	934.4mV	152.8V	0.014uA
6	924.3mV	136.9V	0.009uA	928.8mV	145.1V	0.011uA
7	926.6mV	134.9V	0.012uA	923.3mV	151.7V	0.010uA
8	923.0mV	135.3V	0.012uA	934.1mV	136.4V	0.016uA
9	931.6mV	136.1V	0.016uA	925.5mV	151.2V	0.014uA
10	931.3mV	140.1V	0.015uA	923.2mV	147.9V	0.016uA
11	930.4mV	158.2V	0.016uA	932.7mV	153.9V	0.017uA
12	936.5mV	139.0V	0.014uA	928.8mV	158.5V	0.011uA
13	934.9mV	157.4V	0.011uA	923.5mV	136.6V	0.010uA
14	930.6mV	159.8V	0.010uA	935.2mV	143.6V	0.009uA
15	926.6mV	136.9V	0.017uA	933.6mV	149.4V	0.016uA
16	923.8mV	144.3V	0.013uA	925.5mV	143.9V	0.011uA
17	924.5mV	134.2V	0.016uA	936.6mV	150.9V	0.012uA
18	928.5mV	142.7V	0.017uA	927.9mV	144.5V	0.018uA
19	926.8mV	137.4V	0.012uA	932.9mV	144.5V	0.015uA
20	932.4mV	156.6V	0.013uA	933.0mV	145.8V	0.015uA
21	931.7mV	153.0V	0.009uA	930.4mV	146.2V	0.015uA
22	929.6mV	134.4V	0.014uA	925.6mV	152.8V	0.018uA
23	935.3mV	145.7V	0.012uA	929.5mV	151.7V	0.015uA
24	928.4mV	149.9V	0.012uA	934.9mV	155.1V	0.016uA
25	932.0mV	157.0V	0.012uA	931.3mV	153.3V	0.017uA
26	934.6mV	155.3V	0.016uA	929.3mV	136.6V	0.017uA
27	933.8mV	155.2V	0.015uA	931.4mV	143.9V	0.016uA
28	935.6mV	146.1V	0.013uA	932.4mV	156.6V	0.012uA
29	929.6mV	143.5V	0.011uA	930.9mV	135.9V	0.018uA
30	925.0mV	151.4V	0.013uA	929.3mV	141.7V	0.018uA

SeCoS Corporation

Pressure Cooker Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 121℃, 100%RH, 29.7PSIG, 168Hrs
Test Date: 2015.02.02 ~ 2015.02.10
Test Standard : JESD22 STANDARD Method-A102
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
31	924.4mV	134.1V	0.015uA	931.0mV	148.3V	0.011uA
32	929.6mV	147.7V	0.010uA	932.2mV	137.2V	0.016uA
33	935.2mV	148.4V	0.016uA	925.2mV	137.1V	0.016uA
34	924.0mV	152.5V	0.015uA	926.4mV	146.0V	0.016uA
35	931.3mV	142.1V	0.012uA	931.2mV	148.9V	0.010uA
36	931.4mV	158.3V	0.015uA	927.3mV	138.3V	0.013uA
37	928.0mV	141.2V	0.011uA	931.8mV	136.9V	0.010uA
38	932.9mV	158.5V	0.015uA	930.6mV	136.8V	0.011uA
39	930.5mV	159.6V	0.011uA	925.2mV	146.6V	0.017uA
40	934.9mV	151.6V	0.012uA	925.7mV	152.6V	0.013uA
41	928.1mV	146.4V	0.012uA	928.4mV	159.5V	0.010uA
42	925.1mV	138.6V	0.010uA	933.2mV	133.9V	0.009uA
43	934.3mV	154.6V	0.012uA	929.0mV	159.1V	0.009uA
44	931.1mV	152.4V	0.010uA	931.4mV	137.1V	0.015uA
45	927.6mV	139.3V	0.010uA	929.6mV	156.8V	0.010uA
46	931.6mV	135.8V	0.016uA	930.9mV	145.2V	0.009uA
47	935.2mV	147.2V	0.013uA	929.7mV	151.7V	0.012uA
48	927.0mV	153.6V	0.013uA	925.4mV	134.1V	0.009uA
49	931.4mV	156.9V	0.016uA	931.2mV	140.1V	0.009uA
50	929.0mV	158.2V	0.012uA	934.4mV	154.3V	0.015uA
51	932.4mV	151.9V	0.010uA	929.2mV	136.0V	0.017uA
52	929.7mV	140.0V	0.013uA	927.7mV	158.6V	0.010uA
53	932.5mV	155.4V	0.012uA	931.8mV	135.2V	0.009uA
54	932.1mV	151.8V	0.013uA	925.6mV	141.5V	0.012uA
55	929.9mV	147.5V	0.013uA	923.4mV	138.5V	0.010uA
56	935.8mV	134.6V	0.017uA	930.3mV	156.2V	0.018uA
57	931.2mV	145.6V	0.013uA	927.8mV	152.7V	0.013uA
58	933.3mV	137.6V	0.018uA	925.6mV	145.7V	0.016uA
59	925.7mV	142.1V	0.010uA	924.5mV	146.4V	0.012uA
60	923.8mV	135.6V	0.013uA	930.6mV	147.4V	0.009uA

SeCoS Corporation

Pressure Cooker Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 121℃, 100%RH, 29.7PSIG, 168Hrs
Test Date: 2015.02.02 ~ 2015.02.10
Test Standard : JESD22 STANDARD Method-A102
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
61	933.7mV	159.5V	0.011uA	934.4mV	152.7V	0.012uA
62	933.1mV	151.1V	0.013uA	934.9mV	158.9V	0.012uA
63	926.9mV	140.6V	0.017uA	931.7mV	146.5V	0.016uA
64	928.9mV	155.6V	0.015uA	924.1mV	148.7V	0.011uA
65	935.3mV	151.0V	0.012uA	931.1mV	140.2V	0.010uA
66	925.7mV	142.4V	0.016uA	934.5mV	144.3V	0.011uA
67	936.2mV	134.8V	0.012uA	925.4mV	142.7V	0.012uA
68	933.8mV	155.5V	0.014uA	926.7mV	133.7V	0.016uA
69	931.8mV	152.2V	0.016uA	931.7mV	142.9V	0.017uA
70	925.3mV	146.5V	0.011uA	930.6mV	137.3V	0.014uA
71	926.3mV	149.1V	0.012uA	927.3mV	156.7V	0.011uA
72	927.4mV	141.7V	0.016uA	936.0mV	148.1V	0.010uA
73	934.5mV	154.3V	0.016uA	928.1mV	157.4V	0.012uA
74	929.8mV	146.3V	0.013uA	928.2mV	154.9V	0.013uA
75	933.4mV	149.1V	0.010uA	933.9mV	133.7V	0.017uA
76	928.8mV	134.1V	0.016uA	931.8mV	142.0V	0.011uA
77	933.4mV	149.8V	0.016uA	926.7mV	140.2V	0.011uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

Temperature Cycle Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: -55℃/30min, 150℃/30min, for1000 Cycle
Test Date: 2015.02.02 ~ 2015.03.30
Test Standard : JESD22 STANDARD Method-A104
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
1	925.9mV	157.4V	0.010uA	927.6mV	136.7V	0.013uA
2	931.5mV	134.3V	0.010uA	935.2mV	137.3V	0.016uA
3	934.7mV	147.0V	0.014uA	927.2mV	142.6V	0.011uA
4	935.4mV	144.1V	0.010uA	927.3mV	142.3V	0.011uA
5	935.2mV	147.2V	0.011uA	929.3mV	141.5V	0.015uA
6	931.5mV	159.0V	0.016uA	930.4mV	153.0V	0.015uA
7	928.5mV	139.8V	0.018uA	936.1mV	151.5V	0.011uA
8	924.5mV	136.6V	0.009uA	923.4mV	137.1V	0.016uA
9	928.9mV	153.0V	0.009uA	924.7mV	134.9V	0.013uA
10	928.0mV	154.4V	0.011uA	936.1mV	145.3V	0.011uA
11	926.8mV	148.7V	0.016uA	923.9mV	145.4V	0.016uA
12	935.9mV	133.0V	0.014uA	924.8mV	143.7V	0.010uA
13	932.1mV	133.2V	0.012uA	936.4mV	141.8V	0.011uA
14	933.7mV	151.0V	0.009uA	931.1mV	143.5V	0.013uA
15	924.2mV	159.2V	0.016uA	930.6mV	137.8V	0.017uA
16	925.8mV	144.8V	0.010uA	929.3mV	146.8V	0.012uA
17	925.8mV	139.4V	0.011uA	931.7mV	145.3V	0.015uA
18	926.7mV	151.5V	0.016uA	927.5mV	151.9V	0.009uA
19	923.2mV	145.5V	0.014uA	931.5mV	153.7V	0.015uA
20	930.0mV	133.3V	0.013uA	933.4mV	151.0V	0.015uA
21	936.7mV	138.0V	0.010uA	923.2mV	138.5V	0.012uA
22	930.1mV	158.6V	0.017uA	931.2mV	141.7V	0.010uA
23	924.1mV	154.4V	0.014uA	929.5mV	154.7V	0.015uA
24	936.4mV	149.5V	0.011uA	931.7mV	144.8V	0.016uA
25	927.2mV	144.7V	0.011uA	935.4mV	156.7V	0.016uA
26	934.1mV	141.2V	0.012uA	934.6mV	137.4V	0.015uA
27	929.2mV	157.2V	0.009uA	928.1mV	152.9V	0.016uA
28	933.4mV	160.2V	0.016uA	926.6mV	136.6V	0.014uA
29	926.0mV	147.9V	0.015uA	925.9mV	144.3V	0.018uA
30	929.5mV	140.6V	0.012uA	931.6mV	155.1V	0.011uA

SeCoS Corporation

Temperature Cycle Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: -55℃/30min, 150℃/30min, for1000 Cycle
Test Date: 2015.02.02 ~ 2015.03.30
Test Standard : JESD22 STANDARD Method-A104
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
31	930.2mV	146.6V	0.017uA	935.5mV	136.0V	0.017uA
32	934.6mV	151.3V	0.015uA	923.7mV	141.8V	0.012uA
33	930.9mV	158.6V	0.018uA	933.8mV	147.7V	0.010uA
34	934.1mV	141.1V	0.013uA	923.1mV	149.2V	0.013uA
35	927.4mV	148.4V	0.012uA	932.5mV	159.1V	0.012uA
36	925.9mV	152.2V	0.011uA	929.7mV	142.2V	0.010uA
37	927.0mV	138.1V	0.014uA	923.6mV	156.8V	0.013uA
38	928.3mV	141.2V	0.014uA	926.0mV	158.9V	0.009uA
39	928.0mV	137.4V	0.009uA	935.3mV	148.8V	0.010uA
40	931.0mV	151.5V	0.017uA	923.7mV	145.2V	0.012uA
41	928.1mV	146.2V	0.013uA	931.6mV	159.1V	0.010uA
42	930.7mV	139.8V	0.013uA	931.0mV	154.1V	0.017uA
43	930.5mV	145.3V	0.015uA	929.0mV	143.9V	0.012uA
44	931.4mV	155.9V	0.018uA	933.0mV	159.9V	0.009uA
45	928.6mV	150.1V	0.014uA	923.0mV	155.5V	0.014uA
46	931.9mV	157.3V	0.012uA	936.1mV	150.5V	0.012uA
47	932.4mV	159.6V	0.011uA	933.1mV	135.6V	0.016uA
48	936.5mV	156.1V	0.009uA	934.2mV	152.2V	0.015uA
49	934.8mV	142.3V	0.017uA	936.8mV	140.2V	0.018uA
50	936.6mV	159.1V	0.016uA	924.2mV	143.7V	0.014uA
51	932.9mV	156.8V	0.013uA	927.6mV	141.5V	0.009uA
52	934.2mV	139.5V	0.012uA	927.5mV	133.5V	0.010uA
53	924.9mV	144.0V	0.010uA	934.9mV	138.8V	0.013uA
54	929.8mV	146.3V	0.017uA	932.3mV	140.1V	0.012uA
55	930.8mV	157.3V	0.014uA	928.4mV	139.7V	0.010uA
56	926.4mV	156.9V	0.017uA	928.8mV	159.9V	0.016uA
57	929.8mV	154.3V	0.018uA	930.4mV	156.1V	0.014uA
58	932.6mV	138.3V	0.017uA	936.4mV	152.0V	0.014uA
59	926.4mV	144.4V	0.016uA	934.9mV	138.8V	0.013uA
60	926.6mV	142.7V	0.015uA	928.3mV	159.8V	0.017uA

SeCoS Corporation

Temperature Cycle Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: -55℃/30min, 150℃/30min, for1000 Cycle
Test Date: 2015.02.02 ~ 2015.03.30
Test Standard : JESD22 STANDARD Method-A104
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
61	936.5mV	146.5V	0.015uA	930.6mV	137.1V	0.015uA
62	935.9mV	138.5V	0.016uA	933.0mV	138.1V	0.016uA
63	934.2mV	136.2V	0.017uA	932.0mV	139.5V	0.013uA
64	931.9mV	139.3V	0.017uA	933.5mV	146.4V	0.017uA
65	927.9mV	158.3V	0.016uA	923.6mV	137.4V	0.016uA
66	927.7mV	153.0V	0.015uA	929.0mV	147.0V	0.010uA
67	929.1mV	140.8V	0.014uA	924.7mV	136.5V	0.017uA
68	934.1mV	158.9V	0.013uA	933.5mV	157.1V	0.013uA
69	930.3mV	146.7V	0.016uA	932.7mV	134.4V	0.013uA
70	932.4mV	147.7V	0.011uA	935.4mV	158.9V	0.015uA
71	924.0mV	146.7V	0.016uA	936.9mV	151.8V	0.015uA
72	935.6mV	146.4V	0.012uA	923.1mV	137.6V	0.013uA
73	928.6mV	158.2V	0.012uA	925.9mV	151.7V	0.018uA
74	930.0mV	152.6V	0.014uA	930.0mV	139.6V	0.011uA
75	932.4mV	140.1V	0.013uA	929.6mV	150.8V	0.012uA
76	935.2mV	155.8V	0.012uA	928.1mV	140.4V	0.012uA
77	923.5mV	138.7V	0.015uA	926.7mV	139.2V	0.012uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

High Temperature High Humidity Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 85±2℃, 85±5%RH, 1000Hrs
Test Date: 2015.02.09 ~ 2015.03.23
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
1	925.3mV	136.9V	0.012uA	925.0mV	146.1V	0.017uA
2	931.8mV	151.3V	0.016uA	930.2mV	150.2V	0.017uA
3	933.0mV	143.3V	0.015uA	930.9mV	144.0V	0.012uA
4	926.4mV	153.8V	0.015uA	930.7mV	146.5V	0.016uA
5	928.9mV	158.8V	0.015uA	932.1mV	142.6V	0.010uA
6	923.2mV	149.3V	0.015uA	929.2mV	146.1V	0.014uA
7	926.6mV	154.3V	0.012uA	929.3mV	156.5V	0.010uA
8	936.6mV	143.1V	0.016uA	929.5mV	151.7V	0.012uA
9	935.8mV	140.0V	0.010uA	933.4mV	142.9V	0.014uA
10	931.7mV	156.0V	0.013uA	927.8mV	143.8V	0.010uA
11	926.8mV	154.1V	0.015uA	932.3mV	148.0V	0.013uA
12	933.2mV	143.2V	0.017uA	926.3mV	138.7V	0.014uA
13	929.5mV	136.2V	0.017uA	925.8mV	142.2V	0.011uA
14	924.7mV	139.3V	0.013uA	929.0mV	140.6V	0.012uA
15	929.1mV	133.1V	0.014uA	934.1mV	137.6V	0.013uA
16	927.1mV	143.5V	0.014uA	931.6mV	135.8V	0.013uA
17	929.4mV	145.5V	0.011uA	929.6mV	146.2V	0.017uA
18	927.8mV	145.2V	0.014uA	927.0mV	151.8V	0.016uA
19	933.0mV	155.0V	0.012uA	930.2mV	137.3V	0.013uA
20	932.6mV	144.3V	0.017uA	923.1mV	136.0V	0.016uA
21	932.5mV	133.2V	0.010uA	927.5mV	135.5V	0.016uA
22	935.9mV	135.6V	0.017uA	925.2mV	133.3V	0.012uA
23	926.1mV	141.9V	0.016uA	925.2mV	135.8V	0.012uA
24	930.0mV	156.4V	0.012uA	926.3mV	137.8V	0.012uA
25	926.1mV	158.3V	0.017uA	926.0mV	150.7V	0.016uA
26	935.1mV	155.3V	0.012uA	926.0mV	144.8V	0.011uA
27	927.2mV	135.2V	0.010uA	927.6mV	144.7V	0.013uA
28	935.2mV	135.3V	0.010uA	933.5mV	147.0V	0.015uA
29	925.8mV	148.1V	0.018uA	925.6mV	138.3V	0.009uA
30	928.0mV	151.5V	0.018uA	936.0mV	134.4V	0.015uA

SeCoS Corporation

High Temperature High Humidity Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 85±2℃, 85±5%RH, 1000Hrs
Test Date: 2015.02.09 ~ 2015.03.23
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
31	933.6mV	144.8V	0.014uA	931.6mV	133.4V	0.016uA
32	935.1mV	142.2V	0.011uA	934.5mV	147.7V	0.011uA
33	933.0mV	134.6V	0.015uA	931.6mV	137.3V	0.013uA
34	928.8mV	151.8V	0.010uA	936.6mV	143.3V	0.011uA
35	929.3mV	152.8V	0.010uA	923.2mV	140.3V	0.013uA
36	932.7mV	158.2V	0.015uA	935.1mV	158.2V	0.014uA
37	934.8mV	137.1V	0.010uA	926.5mV	148.5V	0.015uA
38	926.8mV	144.4V	0.010uA	931.0mV	145.1V	0.010uA
39	924.1mV	151.0V	0.010uA	926.3mV	158.3V	0.018uA
40	932.9mV	145.7V	0.009uA	936.2mV	157.4V	0.018uA
41	923.6mV	159.3V	0.013uA	923.8mV	159.1V	0.016uA
42	928.6mV	139.9V	0.015uA	924.7mV	134.1V	0.017uA
43	924.4mV	146.8V	0.013uA	924.2mV	136.7V	0.012uA
44	927.0mV	140.9V	0.015uA	932.2mV	154.7V	0.012uA
45	930.5mV	158.2V	0.011uA	933.7mV	144.1V	0.011uA
46	936.9mV	160.3V	0.014uA	933.0mV	159.2V	0.010uA
47	928.4mV	139.2V	0.014uA	926.4mV	154.6V	0.012uA
48	926.0mV	153.4V	0.010uA	933.3mV	134.9V	0.015uA
49	929.6mV	138.4V	0.015uA	933.5mV	137.8V	0.012uA
50	936.9mV	140.6V	0.011uA	926.0mV	159.8V	0.017uA
51	929.7mV	157.1V	0.010uA	931.3mV	137.9V	0.011uA
52	934.5mV	150.5V	0.012uA	923.8mV	150.8V	0.009uA
53	927.8mV	138.8V	0.013uA	926.7mV	143.5V	0.010uA
54	927.1mV	146.6V	0.013uA	933.4mV	147.1V	0.015uA
55	929.1mV	149.5V	0.012uA	929.6mV	143.5V	0.015uA
56	925.4mV	139.9V	0.015uA	924.1mV	141.9V	0.014uA
57	923.3mV	136.6V	0.012uA	926.6mV	140.7V	0.014uA
58	923.5mV	141.4V	0.011uA	928.1mV	141.8V	0.010uA
59	924.6mV	139.6V	0.015uA	926.5mV	137.0V	0.012uA
60	930.4mV	154.7V	0.015uA	928.7mV	138.1V	0.013uA

SeCoS Corporation

High Temperature High Humidity Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 85±2℃, 85±5%RH, 1000Hrs
Test Date: 2015.02.09 ~ 2015.03.23
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
61	926.2mV	144.6V	0.017uA	928.3mV	160.2V	0.018uA
62	932.2mV	147.2V	0.016uA	936.6mV	143.1V	0.017uA
63	923.3mV	141.8V	0.014uA	928.5mV	157.2V	0.012uA
64	925.6mV	135.2V	0.013uA	932.8mV	143.3V	0.011uA
65	936.4mV	152.2V	0.009uA	927.7mV	158.1V	0.015uA
66	930.3mV	157.6V	0.014uA	923.7mV	142.8V	0.017uA
67	931.2mV	148.1V	0.011uA	934.1mV	143.4V	0.014uA
68	929.7mV	157.4V	0.014uA	932.2mV	158.9V	0.010uA
69	933.8mV	159.5V	0.015uA	926.8mV	134.1V	0.011uA
70	926.6mV	138.5V	0.017uA	934.5mV	135.0V	0.018uA
71	930.1mV	148.7V	0.013uA	930.5mV	140.2V	0.010uA
72	931.3mV	151.8V	0.015uA	932.6mV	142.4V	0.012uA
73	930.8mV	146.3V	0.011uA	924.8mV	138.6V	0.012uA
74	927.1mV	145.8V	0.016uA	931.6mV	153.7V	0.014uA
75	925.2mV	148.3V	0.017uA	926.7mV	146.9V	0.010uA
76	927.0mV	140.9V	0.009uA	933.4mV	133.3V	0.016uA
77	929.0mV	141.7V	0.009uA	931.4mV	138.9V	0.015uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

High Temper High Humidity Reverse Bies Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 85±2℃, 85±5%RH, 1000Hrs
Test Date: 2015.02.09 ~ 2015.03.23
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
1	925.0mV	137.9V	0.017uA	924.4mV	153.7V	0.013uA
2	931.0mV	153.7V	0.014uA	925.2mV	141.8V	0.011uA
3	923.8mV	139.7V	0.010uA	926.6mV	137.7V	0.017uA
4	933.2mV	135.5V	0.016uA	931.8mV	154.7V	0.016uA
5	928.7mV	154.1V	0.016uA	930.6mV	158.4V	0.013uA
6	932.6mV	137.9V	0.014uA	936.4mV	159.0V	0.013uA
7	923.5mV	147.4V	0.010uA	923.3mV	143.2V	0.017uA
8	934.4mV	157.1V	0.018uA	928.0mV	140.6V	0.009uA
9	927.4mV	151.1V	0.013uA	934.0mV	151.7V	0.012uA
10	924.4mV	143.9V	0.018uA	931.4mV	148.1V	0.016uA
11	931.9mV	146.1V	0.009uA	927.3mV	146.0V	0.018uA
12	935.7mV	158.7V	0.014uA	932.2mV	147.5V	0.017uA
13	932.3mV	153.2V	0.018uA	932.7mV	152.0V	0.011uA
14	936.4mV	134.9V	0.011uA	929.3mV	158.0V	0.014uA
15	934.5mV	141.6V	0.015uA	932.3mV	143.8V	0.012uA
16	935.9mV	150.4V	0.016uA	930.7mV	149.6V	0.017uA
17	936.5mV	145.8V	0.016uA	927.1mV	145.1V	0.012uA
18	936.7mV	139.7V	0.013uA	932.3mV	140.6V	0.017uA
19	930.6mV	142.6V	0.015uA	925.2mV	148.9V	0.017uA
20	930.4mV	154.2V	0.013uA	928.8mV	156.1V	0.013uA
21	924.6mV	138.5V	0.012uA	935.9mV	140.9V	0.012uA
22	931.6mV	160.1V	0.011uA	931.2mV	136.9V	0.016uA
23	936.5mV	157.2V	0.016uA	924.1mV	139.3V	0.012uA
24	933.9mV	139.6V	0.011uA	930.2mV	140.1V	0.017uA
25	930.0mV	160.1V	0.009uA	935.4mV	150.8V	0.015uA
26	928.9mV	136.4V	0.013uA	926.5mV	137.3V	0.011uA
27	925.2mV	147.8V	0.012uA	932.5mV	139.6V	0.009uA
28	935.0mV	148.9V	0.013uA	924.6mV	156.1V	0.010uA
29	933.2mV	142.7V	0.014uA	932.8mV	156.3V	0.010uA
30	926.4mV	144.9V	0.016uA	930.5mV	157.7V	0.014uA

SeCoS Corporation

High Temper High Humidity Reverse Bies Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 85±2℃, 85±5%RH, 1000Hrs
Test Date: 2015.02.09 ~ 2015.03.23
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
31	928.5mV	137.4V	0.012uA	928.7mV	149.3V	0.014uA
32	933.7mV	136.0V	0.012uA	924.6mV	152.9V	0.010uA
33	932.3mV	152.0V	0.018uA	932.0mV	151.7V	0.013uA
34	935.0mV	147.7V	0.010uA	923.9mV	141.3V	0.012uA
35	936.9mV	150.2V	0.012uA	929.2mV	150.4V	0.010uA
36	928.1mV	156.3V	0.016uA	933.8mV	152.0V	0.012uA
37	926.2mV	139.0V	0.017uA	927.4mV	134.1V	0.017uA
38	931.0mV	158.2V	0.014uA	924.1mV	152.8V	0.014uA
39	933.8mV	160.3V	0.015uA	927.8mV	157.7V	0.016uA
40	936.1mV	158.3V	0.016uA	926.2mV	133.8V	0.017uA
41	934.6mV	148.4V	0.013uA	931.2mV	152.3V	0.010uA
42	927.1mV	154.0V	0.016uA	936.7mV	137.0V	0.011uA
43	932.2mV	149.1V	0.015uA	930.0mV	140.9V	0.011uA
44	925.2mV	145.4V	0.010uA	923.5mV	134.2V	0.014uA
45	933.8mV	148.8V	0.012uA	926.5mV	151.4V	0.016uA
46	933.8mV	155.5V	0.012uA	931.4mV	145.2V	0.013uA
47	924.8mV	160.3V	0.016uA	928.6mV	156.2V	0.015uA
48	928.0mV	135.0V	0.014uA	934.7mV	144.4V	0.016uA
49	934.3mV	151.8V	0.016uA	934.7mV	138.3V	0.010uA
50	927.9mV	137.5V	0.016uA	932.7mV	151.6V	0.011uA
51	934.6mV	148.6V	0.013uA	927.6mV	134.5V	0.011uA
52	931.3mV	145.8V	0.009uA	934.4mV	149.7V	0.016uA
53	936.2mV	151.6V	0.010uA	934.5mV	133.4V	0.011uA
54	925.4mV	152.1V	0.013uA	924.9mV	156.9V	0.012uA
55	925.5mV	137.1V	0.015uA	929.9mV	141.5V	0.011uA
56	923.1mV	149.6V	0.018uA	933.9mV	149.3V	0.012uA
57	929.8mV	137.8V	0.017uA	930.5mV	133.0V	0.012uA
58	932.0mV	137.6V	0.012uA	935.7mV	153.9V	0.014uA
59	923.6mV	136.7V	0.013uA	931.8mV	160.0V	0.014uA
60	929.7mV	134.1V	0.012uA	936.1mV	144.9V	0.012uA

SeCoS Corporation

High Temper High Humidity Reverse Bies Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 85±2℃, 85±5%RH, 1000Hrs
Test Date: 2015.02.09 ~ 2015.03.23
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
61	928.9mV	141.6V	0.014uA	924.5mV	137.7V	0.009uA
62	933.6mV	148.0V	0.014uA	927.0mV	134.3V	0.013uA
63	930.0mV	140.8V	0.014uA	927.3mV	145.9V	0.009uA
64	925.1mV	140.3V	0.014uA	934.4mV	135.9V	0.010uA
65	927.1mV	136.2V	0.010uA	923.3mV	141.2V	0.014uA
66	930.0mV	160.2V	0.011uA	929.9mV	158.8V	0.017uA
67	936.4mV	147.2V	0.016uA	928.6mV	135.5V	0.014uA
68	925.5mV	149.0V	0.017uA	936.3mV	150.8V	0.012uA
69	931.9mV	146.4V	0.013uA	926.3mV	153.9V	0.013uA
70	924.2mV	158.4V	0.010uA	929.3mV	138.3V	0.013uA
71	929.6mV	157.2V	0.012uA	935.7mV	143.2V	0.016uA
72	931.0mV	145.5V	0.012uA	927.0mV	139.8V	0.010uA
73	928.5mV	148.5V	0.009uA	936.5mV	139.5V	0.013uA
74	936.4mV	144.5V	0.012uA	929.7mV	150.3V	0.011uA
75	927.1mV	158.5V	0.012uA	927.1mV	157.6V	0.009uA
76	924.3mV	146.6V	0.014uA	935.1mV	150.5V	0.009uA
77	932.6mV	154.5V	0.014uA	930.1mV	135.4V	0.018uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

Solderability Test Data

Report No : T150331-013
Part No : BAV16P
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<1250mV@IF=150mA, VB>100V@IR=1mA, IR<1uA@VR=75V
Test Condition: 245℃ ± 5℃, 5Sec
Test Date: 2015.03.30
Test Standard : JESD22 STANDER Method-B102
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF (mV)	VB (V)	IR (uA)	VF (mV)	VB (V)	IR (uA)
1	926.2mV	152.6V	0.011uA	926.6mV	147.7V	0.018uA
2	936.7mV	158.7V	0.018uA	924.0mV	149.0V	0.014uA
3	928.3mV	139.7V	0.015uA	927.5mV	137.1V	0.012uA
4	931.1mV	154.7V	0.011uA	936.4mV	142.0V	0.016uA
5	933.9mV	150.2V	0.014uA	930.1mV	146.9V	0.010uA
6	930.3mV	139.2V	0.018uA	928.7mV	143.8V	0.018uA
7	924.4mV	156.0V	0.016uA	924.4mV	153.2V	0.017uA
8	923.1mV	155.8V	0.013uA	931.6mV	142.9V	0.018uA
9	923.7mV	147.3V	0.011uA	927.0mV	150.5V	0.015uA
10	931.0mV	136.5V	0.010uA	924.8mV	155.3V	0.012uA

Made By: King Huang

Approval: Peter Yang

MSDS/ Material Safety Data Sheet

1、Product and manufacturer information

Product name： Leadframe
Product number：
Manufacturer： Jiangyin KangQiang Electronic Co.,Ltd Address： No.3 Dongding Road, Jiangyin Economic Development Zone Telephone.：0510-68970900
Emergency telephone：0510-68970900 Fax：0510-68970902

2、Element material

This part is made up of several metal materials, the percentage of chemical composition is shown as follows：

composition / material	KFC	A194 C19400	C19210	Ni42 YEF42	BYP27	CAS NO.
Cu	99.76-99.875	>97	Balance			7440-50-8
Fe	0.05-0.15	2.1-2.6	0.05-0.15	Balance	Balance	7439-89-6
Si				≤0.30	≤0.30	7440-21-3
Mn				≤0.8	≤0.80	7439-96-5
Ni				40.5～42.5	40.0-42.5	7440-02-0
S				≤0.025	≤0.020	7704-34-9
P	0.025-0.04	0.015-0.15	0.015-0.04	≤0.025	≤0.020	7723-14-0
Zn		0.05-0.20				7440-66-6
Al				≤0.1	≤0.10	7429-90-5
Cr				≤0.1		7440-47-3
Pb		<0.01				7439-92-1
C				≤0.05	＜0.02	7440-44-0
Remark	Due to different demands of the products, a layer of metal coating is needed on the surface area of products, the material content of metal coating is about:					

Coating category	Content	CAS NO.
Silver coating products	0.01-0.08%	7440-22-4
Nickel coating products	0.01-0.08%	7440-02-0

composition / material	XYK-1	CAC5	XYK-4	42%Ni-Fe-1/ 2H-LS	K55	K75	CAS NO.
Cu	Balance	Balance			Balance	Balance	7440-50-8

Fe	0.05-0.15		2.1-2.6	Balance	≤2.4		7439-89-6
Si				≤0.30		≤0.02	7440-21-3
Mn				≤0.80			7439-95-4
Ni		0.7～0.9		40-42			7440-02-0
S				≤0.025			7704-34-9
Pb	≤0.015		≤0.03				7439-92-1
Sn		1.0～2.0				≤0.1	7440-31-5
P	0.025-0.04	0.02-0.09	0.015-0.15	≤0.025	≤0.03		7723-14-0
Al				≤0.100			7429-90-5
Cr				≤0.10		0.3	7440-47-3
C				≤0.05			7440-44-0
Zn			0.05-0.2		≤0.12		7440-66-6
Remark	Due to different demands of the products, a layer of metal coating is needed on the surface area of products, the material content of metal coating is about:						

Coating category	Content	CAS NO.
Silver coating products	0.01-0.08%	7440-22-4
Nickel coating products	0.01-0.08%	7440-02-0

composition / material	KLF194	GFC	C7025	/	/	CAS NO.
Cu	≥97	Balance	余量			7440-50-8
Fe	2.1-2.6	0.05-0.15	≤0.2			7439-89-6
Si			0.25-1.2			7440-21-3
Mn						7439-96-5
Ni			2.2-4.2			7440-02-0
S						7704-34-9
P	0.015-0.15	0.02-0.04				7723-14-0
Zn	0.05-0.2		≤1.0			7440-66-6
Al						7429-90-5
Cr						7440-47-3
Pb	≤0.03		≤0.05			7439-92-1
C						7440-44-0
Remark	Due to different demands of the products, a layer of metal coating is needed on the surface area of products, the material content of metal coating is about:					

Coating category	Content	CAS NO.
Silver coating products	0.01-0.08%	7440-22-4
Nickel coating products	0.01-0.08%	7440-02-0

3、Physical and chemical properties

Condition： Solid	Shape： Strip
Color： Silver coating is silvery， Nickel coating is shiny grey	Smell： No
Flammability： Nonflammable	Melting points： 1083℃(Cu) 960℃(Ag) 1430℃（Fe/Ni）
Specific gravity： 8.92g/cm^3(Cu) 10.5 g/cm^3(Ag) 8.1 g/cm^3(Fe/Ni)	(Solubility(to water)： Insoluble
Ignition temperature： No	Explosibility： No

4、Damage discrimination material

Poisonousness： There is no data showing that using such metal will have any damage under normal circumstances.
Environmental pollution： There is no data showing that the material will cause any environmental pollution under normal circumstances.
health risk：eye： NO swallow： NO inhalation： NO skin： Touching these metals may cause skin allergy, so please avoid scratching the skin by product burr.
harmful material code： health： NO Inflammability： NO Physical damage： NO Individual protection： NO

5、Emergency measures

If having the skin allergy, please wash around 15 minutes in clean water; if serious, please go to hospital at once.

6、Extinguishing measures

Extinguishing measures： These are inflammable materials, so it will not cause damage to human health as well as environment.
Dangerous combustion product： NO
Applicable extinguishing agent： No special requirements.

7、Spillage management

Precautionary measure and equipment： No spillage
Clean method： NO
Individual protective measures： NO

8、Stability

Stability： Leadframe is very stable in chemical characteristics. It will not break down the harmful materials to human health and environment with the change of environment.
Condition should avoided： NO
Material should be avoided： NO
Hazardous Decomposition Products： NO

9、Safety management and storage method

Safety management： It can be taken by hand directly, but to ensure the performance of products, it is highly suggested taking with clean cotton gloves.
Storage： It must be stored in a dry, well-ventilated and out of direct sunlight place, keeping away from chemical and sulfur-containing materials.

10、Poisonousness

Acute toxicity： NO
Carcinogenicity： NO
Anaphylaxis： It may cause allergic phenomenon when touching the products.
Slow toxicity： NO.

11、Exposure control and individule protection

Eye： If touching the eye, please go to hospital at once.
Swallow and inhalation： NO
Skin： It may cause allergic phenomenon when the skin touches the products.

12、Ecology material

Potential environmental influence： It will not cause the environmental pollution in normal use, but if abandoned in natural environment, after corrosion, the released harmful Copper ion and Silver ion will do the pollution.
Mobility： NO
Ecological toxicity： NO

13、Abandon management

Abandon management： Metal recycle

14、Transportation

International transport rules： No
U.N. number： No
Domestic transport rules： No
Special transportation and announcements： No

15、Laws and regulations

Applicable regulations： No

16、Other information

Tabulation	Company name：Jiangyin KangQiang Electronic Co.,Ltd	
	Address：No.3 Dongding Road, Jiangyin Economic Development Zone	
Tabulator：王莉	Check by：刘娜	Date：2014.1.10

Test Report

JIANGYIN KANGQIANG ELECTRONICS CO.,LTD

NO.3 DONGDING ROAD,JIANGYIN ECONOMIC DEVELOPMENT ZONE

The following sample(s) was/were submitted and identified on behalf of the clients as : Lead frame

SGS Job No. :	SP14-012762 - SH
Model No. :	Ag Plating Layer
Date of Sample Received :	09 May 2014
Testing Period :	09 May 2014 - 13 May 2014
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS-CSTC Ltd.

Marry Ma
Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA14-081682.001	Copper metal sheet with silvery plating

Remarks :

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method : (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
(3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by spot test / Colorimetric Method using UV-Vis.

Test Item(s)	Limit	Unit	MDL	*001*
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	-	-	◇	Negative

Notes :

(1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II

(2) ◇Spot-test:
Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)
◇Boiling-water-extraction:
Negative = Absence of Cr(VI) coating
Positive = Presence of Cr(VI) coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

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Element(s)

Test Method : With reference to US EPA Method 3050B:1996, analysis was performed by ICP-OES.

Test Item(s)	Unit	MDL	*001*
Antimony (Sb)	mg/kg	10	ND

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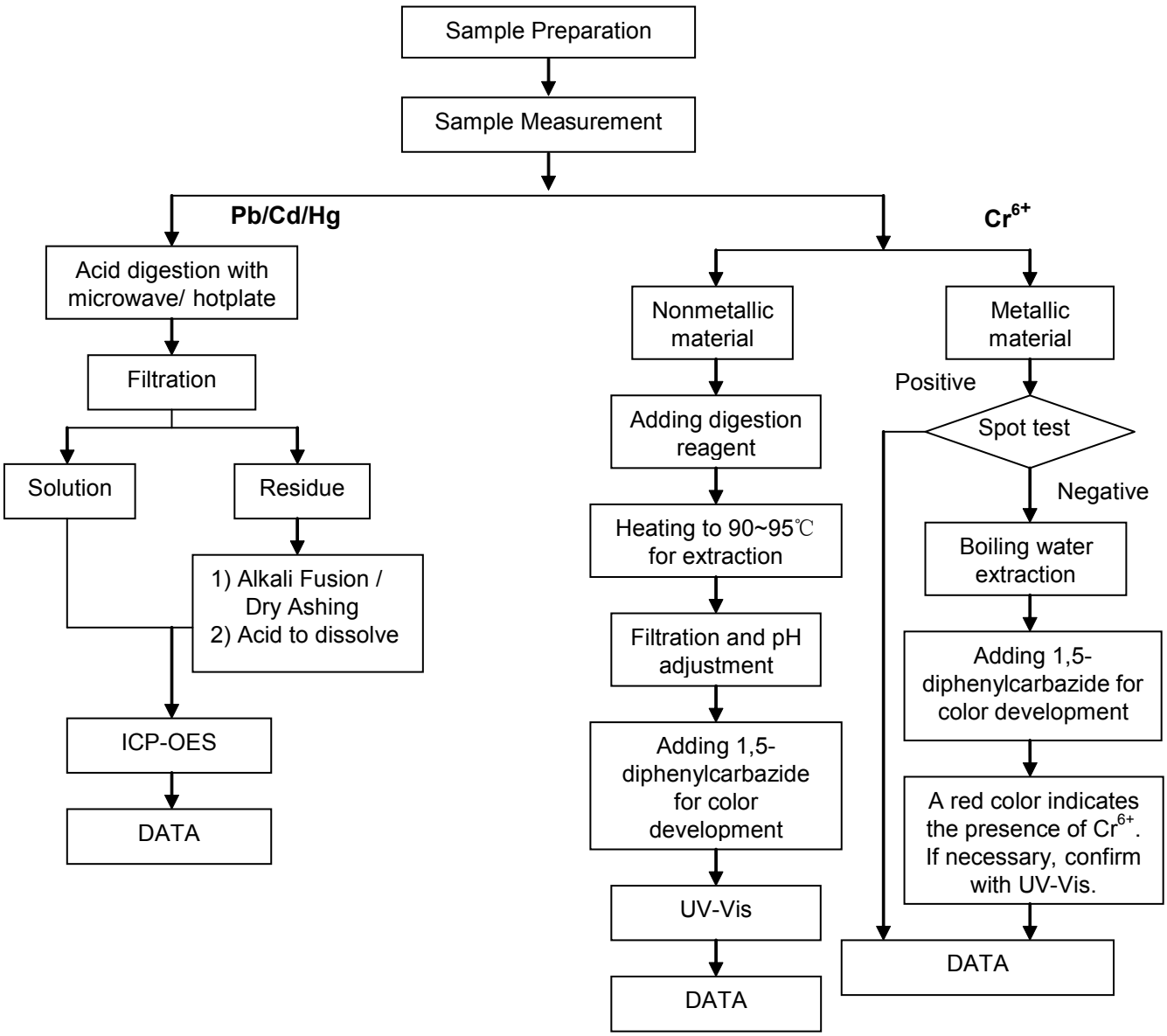
ATTACHMENTS

RoHS Testing Flow Chart

1) Name of the person who made testing: Jan Shi/Star Wang / Shara Wang
2) Name of the person in charge of testing: Jeff Zhang
3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)



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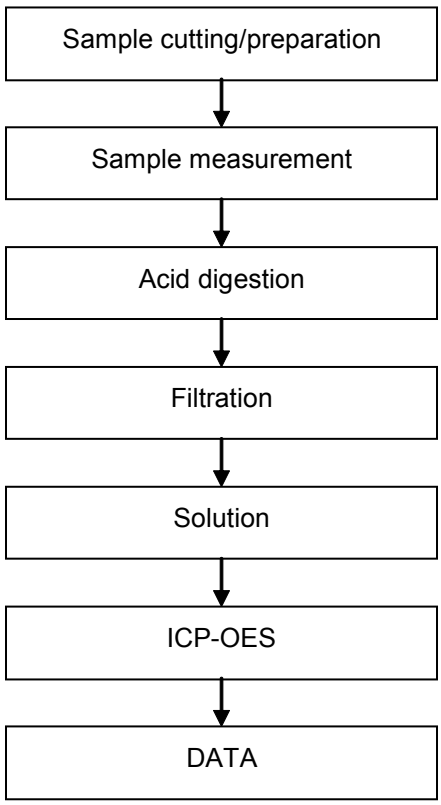
ATTACHMENTS

Elements Testing Flow Chart

1) Name of the person who made testing: Star Wang/ Jan Shi
2) Name of the person in charge of testing: Jeff Zhang



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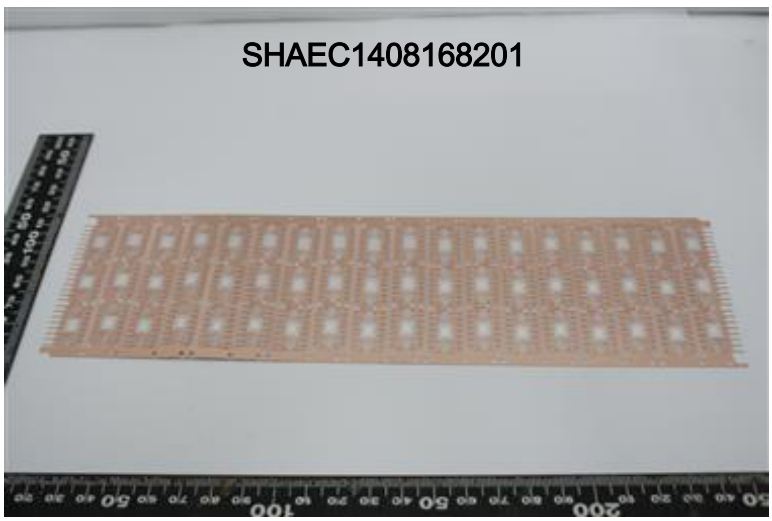
Sample photo:



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Test Report

No. SHAEC1500359101 Date: 10 Jan 2015

JIANGYIN KANGQIANG ELECTRONICS CO.,LTD

NO.3 DONGDING ROAD,JIANGYIN ECONOMIC DEVELOPMENT ZONE

The following sample(s) was/were submitted and identified on behalf of the clients as : Lead frame CAC5

SGS Job No. :	SP15-000285 - SH
Model No. :	SOT,SOD Lead frame
Date of Sample Received :	08 Jan 2015
Testing Period :	08 Jan 2015 - 10 Jan 2015
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS-CSTC Ltd.

Marry Ma
Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA15-003591.001	Copper/silver metal sheet

Remarks :

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method : (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
(2) With reference to IEC 62321-5:2013, determination of Lead by AAS.
(3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by spot test / Colorimetric Method using UV-Vis.
(5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	Limit	Unit	MDL	*001*
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	-	-	◇	Negative
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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Test Item(s)	Limit	Unit	MDL	*001*
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

Notes :

(1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II

(2) ◇Spot-test:

Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)

◇Boiling-water-extraction:

Negative = Absence of Cr(VI) coating

Positive = Presence of Cr(VI) coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

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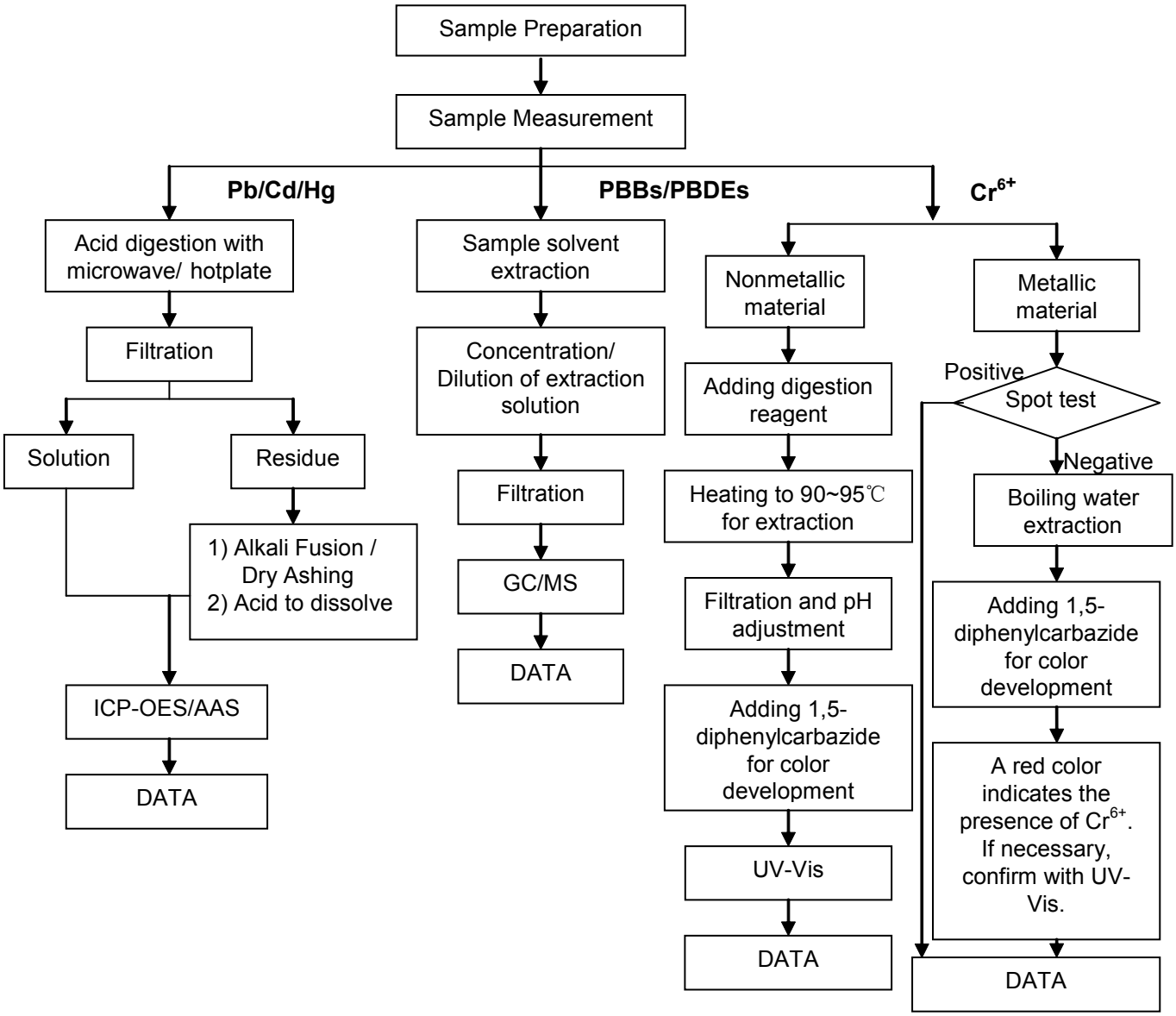
ATTACHMENTS

RoHS Testing Flow Chart

1) Name of the person who made testing: Bob Zhang/Gary Xu/Stone Chen/Sunny Qin
2) Name of the person in charge of testing: Jan Shi/Summer Jin/Jessy Huang
3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} and PBBs/PBDEs test method excluded)



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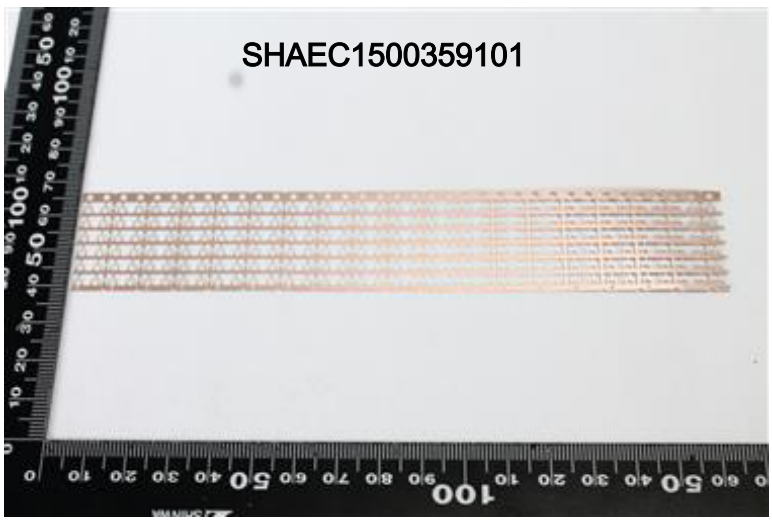
Sample photo:



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