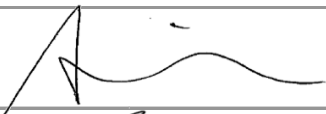




## Product/Process Change Notification

PCN#	Effective Date	Issue Date
2020-05-08C-01	2020/8/8	2020/5/8
PCN Classification	Product Category	
Major	SOD-123 Package	
Subject		
Change SOD-123 Lead Frame from 4 Rows to 12 Rows		
Affected Product(s)		
As attachment		
Description of Change(s)		
In order to improve production efficiency and avoid shortage of raw materials, we have added a second lead frame.		
Content of Change(s)		
Lead frame		
Impact(s)		
None		
Attachment(s)		
Reliability 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(s)

SCS0520P	SCS1100P
SCS0530P	SCS220P
SCS0540P	SCS230P
SCS0560P	SCS240P
SCS05100P	SCS0520LP
SCS120P	SCS0530LP
SCS130P	SCS0540LP
SCS140P	SCK140LP
SCS160P	



## Reliability Testing Summary Report

Date: 2020/05/08

Document No.: SN20 -05- S140P

Test Item	P/N	Test Condition	(LTPD)	Sample Numbers	Allow Fall Numbers	Fall Numbers	Result
HTRB High Temp Reverse Bias	SCS140P-C	100 ± 5°C , 80% VR, T = 1000hrs		77	0	0	ACC
HTSL High Temperature Storage Life	SCS140P-C	150°C, T = 1000 hrs		77	0	0	ACC
PCT Pressure Cooker Test	SCS140P-C	121°C, 29.7PSIG, 168 hrs		77	0	0	ACC
TCT Temperature Cycle Test	SCS140P-C	-55°C/30min, 150°C/30min, For 1000 Cycle		77	0	0	ACC
THT High Temperature High Humidity Test	SCS140P-C	85 ± 2°C, RH=85±5%, 1000 hrs		77	0	0	ACC
H3TRB High Temper High Humidity Reverse Bies Test	SCS140P-C	85 ± 2°C, RH=85±5%, 80% VR, 1000 hrs		77	0	0	ACC
Solderability	SCS140P-C	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: 2020.03.09    Testing End Date: 2020.05.08

Tester: King Huang    Approval: Peter Yang



## Electrical Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 25°C

Test Date: 2020.03.09

Test Standard : Specifications

Operator: Leo Hsia

Test Result: PASS

No	VF	VB	IR
1	472.1mV	55.25V	20.46uA
2	473.8mV	55.15V	24.01uA
3	473.0mV	55.04V	21.35uA
4	468.5mV	54.81V	23.07uA
5	469.8mV	55.22V	22.19uA
6	468.4mV	54.62V	19.96uA
7	470.0mV	54.77V	19.65uA
8	473.1mV	54.98V	24.51uA
9	470.7mV	54.58V	21.87uA
10	470.7mV	54.80V	19.56uA
11	473.9mV	54.35V	19.65uA
12	467.6mV	54.83V	24.29uA
13	472.1mV	54.90V	21.42uA
14	473.8mV	54.97V	20.92uA
15	467.3mV	54.34V	21.00uA
16	470.5mV	55.21V	20.75uA
17	468.6mV	55.22V	21.27uA
20	467.8mV	54.54V	22.04uA
19	469.1mV	54.79V	19.69uA
20	473.2mV	54.60V	22.51uA
21	467.1mV	54.98V	24.11uA
22	467.7mV	54.36V	22.89uA
23	467.2mV	54.51V	22.18uA
24	472.5mV	54.81V	22.32uA
25	471.6mV	54.73V	21.77uA
26	470.3mV	54.65V	22.71uA
27	471.9mV	55.21V	23.18uA
28	473.5mV	55.21V	19.66uA
29	471.6mV	54.88V	20.42uA
30	473.2mV	54.59V	22.27uA
31	471.7mV	55.16V	22.57uA



## Electrical Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 25°C

Test Date: 2020.03.09

Test Standard : Specifications

Operator: Leo Hsia

Test Result: PASS

No	VF	VB	IR
32	471.9mV	54.77V	21.33uA
33	473.4mV	54.54V	19.42uA
34	470.4mV	54.39V	20.56uA
35	471.0mV	54.60V	19.96uA
36	473.2mV	54.58V	21.70uA
37	472.1mV	54.86V	20.25uA
38	471.1mV	54.53V	21.49uA
39	473.1mV	55.13V	24.25uA
40	467.6mV	54.37V	24.30uA
41	472.3mV	54.40V	22.50uA
42	473.0mV	54.61V	21.77uA
43	468.8mV	54.42V	19.72uA
44	470.8mV	54.89V	20.68uA
45	468.2mV	54.54V	22.73uA
46	473.2mV	55.22V	23.00uA
47	472.6mV	55.07V	19.88uA
48	467.5mV	54.60V	20.28uA
49	467.4mV	54.94V	24.45uA
50	469.6mV	54.40V	20.09uA
51	471.0mV	54.74V	23.24uA
52	470.2mV	54.56V	20.50uA
53	473.3mV	54.99V	20.87uA
54	473.3mV	54.60V	22.54uA
55	472.0mV	54.49V	22.19uA
56	469.1mV	55.02V	25.01uA
57	468.2mV	54.57V	22.31uA
58	472.7mV	55.06V	22.47uA
59	469.7mV	54.84V	22.63uA
60	469.0mV	54.37V	19.78uA
61	469.0mV	54.38V	23.69uA
62	468.0mV	55.06V	24.08uA



## Electrical Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 25°C

Test Date: 2020.03.09

Test Standard : Specifications

Operator: Leo Hsia

Test Result: PASS

No	VF	VB	IR
63	471.9mV	55.07V	22.63uA
64	472.8mV	54.90V	20.54uA
65	470.8mV	54.38V	20.04uA
66	472.0mV	54.53V	19.82uA
67	473.9mV	54.37V	21.82uA
68	467.9mV	55.20V	23.70uA
69	473.3mV	54.91V	23.34uA
70	473.7mV	54.57V	21.02uA
71	467.1mV	54.53V	23.18uA
72	471.8mV	54.42V	22.87uA
73	467.0mV	54.83V	20.59uA
74	470.0mV	54.77V	19.52uA
75	472.6mV	55.04V	23.01uA
76	467.9mV	54.92V	23.23uA
77	472.6mV	54.84V	23.33uA

Made By: King Huang

Approval: Peter Yang



## High Temperature Reverse Bias Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 100 ± 5°C, 80% VR, T = 1000 hrs

Test Date: 2020.03.10 ~ 2020.04.22

Test Standard : JESD22 STANDARD Method-A108

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
1	467.0mV	54.78V	23.63uA	472.5mV	54.46V	21.61uA
2	472.8mV	54.89V	20.96uA	469.5mV	54.88V	21.01uA
3	473.6mV	54.56V	19.77uA	470.6mV	55.27V	24.21uA
4	473.4mV	54.60V	21.31uA	474.0mV	54.93V	23.20uA
5	467.6mV	55.19V	24.06uA	468.8mV	54.55V	21.66uA
6	472.6mV	54.91V	23.85uA	471.8mV	55.06V	24.99uA
7	469.4mV	54.72V	21.22uA	471.7mV	54.90V	22.33uA
8	474.0mV	55.22V	22.03uA	467.0mV	54.45V	22.20uA
9	473.0mV	54.85V	20.98uA	471.9mV	55.02V	23.11uA
10	467.3mV	55.07V	22.63uA	473.5mV	54.42V	21.94uA
11	469.1mV	54.86V	21.66uA	471.2mV	54.35V	24.33uA
12	473.2mV	54.86V	20.56uA	471.1mV	54.59V	23.28uA
13	473.2mV	55.08V	22.97uA	473.1mV	55.07V	19.55uA
14	471.1mV	54.39V	22.77uA	473.0mV	54.84V	22.61uA
15	472.7mV	54.50V	20.65uA	467.4mV	54.87V	20.18uA
16	468.3mV	54.63V	24.39uA	472.2mV	55.21V	19.35uA
17	469.1mV	55.18V	20.42uA	473.2mV	54.70V	22.38uA
20	468.8mV	54.68V	24.78uA	470.2mV	54.45V	19.89uA
19	468.7mV	55.22V	22.55uA	473.5mV	54.67V	24.36uA
20	469.5mV	54.33V	20.25uA	468.0mV	55.16V	19.78uA
21	470.1mV	55.02V	24.09uA	468.2mV	54.84V	22.32uA
22	473.6mV	55.23V	20.12uA	467.7mV	55.00V	23.98uA
23	467.8mV	54.42V	20.21uA	472.7mV	55.24V	19.95uA
24	468.5mV	55.09V	19.56uA	471.0mV	54.36V	23.40uA
25	472.1mV	54.97V	22.40uA	473.5mV	54.58V	23.65uA
26	468.6mV	54.71V	19.64uA	469.3mV	54.65V	25.16uA
27	469.8mV	54.94V	21.38uA	468.5mV	54.74V	24.65uA
28	468.6mV	54.96V	21.85uA	473.9mV	54.56V	23.07uA
29	470.6mV	54.49V	20.32uA	470.6mV	54.91V	21.51uA
30	473.3mV	55.07V	19.41uA	467.0mV	54.72V	23.40uA



## High Temperature Reverse Bias Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 100 ± 5°C, 80% VR, T = 1000 hrs

Test Date: 2020.03.10 ~ 2020.04.22

Test Standard : JESD22 STANDARD Method-A108

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
31	472.2mV	55.10V	23.17uA	468.4mV	54.40V	23.85uA
32	469.6mV	55.24V	22.79uA	468.3mV	54.72V	24.23uA
33	471.8mV	54.75V	19.39uA	469.8mV	54.56V	21.51uA
34	469.0mV	54.96V	22.72uA	470.7mV	54.99V	24.65uA
35	468.7mV	54.87V	22.30uA	471.2mV	54.59V	25.06uA
36	469.5mV	54.76V	22.56uA	471.8mV	54.52V	23.43uA
37	472.4mV	54.38V	19.39uA	473.1mV	54.97V	23.31uA
38	470.5mV	55.02V	24.47uA	468.0mV	54.68V	24.87uA
39	471.2mV	54.69V	20.94uA	472.0mV	55.07V	24.87uA
40	472.2mV	54.38V	20.85uA	468.6mV	54.95V	24.90uA
41	468.5mV	54.42V	22.47uA	471.1mV	54.48V	23.61uA
42	468.4mV	54.99V	23.26uA	470.2mV	55.15V	20.87uA
43	471.1mV	55.03V	22.09uA	469.1mV	54.39V	22.48uA
44	472.5mV	54.92V	22.99uA	470.1mV	54.70V	20.24uA
45	473.4mV	55.07V	23.84uA	471.0mV	54.84V	25.16uA
46	473.6mV	54.98V	23.75uA	470.7mV	54.95V	22.65uA
47	468.4mV	54.32V	21.87uA	468.1mV	54.51V	23.05uA
48	473.8mV	54.59V	21.74uA	470.1mV	55.11V	20.91uA
49	468.8mV	54.91V	24.37uA	468.1mV	54.83V	24.51uA
50	467.9mV	54.71V	25.14uA	470.9mV	54.40V	24.23uA
51	470.0mV	54.69V	22.85uA	469.4mV	55.00V	25.12uA
52	471.2mV	54.89V	23.31uA	467.3mV	54.75V	21.60uA
53	470.0mV	55.00V	23.62uA	473.9mV	54.45V	23.99uA
54	471.2mV	54.92V	23.16uA	468.5mV	55.20V	21.72uA
55	472.8mV	55.12V	24.95uA	471.6mV	54.42V	23.97uA
56	467.7mV	54.70V	19.50uA	470.7mV	54.33V	22.60uA
57	468.5mV	54.52V	21.12uA	472.7mV	55.22V	21.74uA
58	471.9mV	54.98V	22.27uA	467.4mV	55.00V	24.63uA
59	469.2mV	54.43V	23.72uA	467.8mV	54.49V	23.13uA
60	473.9mV	55.10V	24.51uA	471.5mV	54.83V	24.97uA





## High Temperature Reverse Bias Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 100 ± 5°C, 80% VR, T = 1000 hrs

Test Date: 2020.03.10 ~ 2020.04.22

Test Standard : JESD22 STANDARD Method-A108

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
61	471.3mV	55.02V	22.97uA	469.8mV	54.50V	24.91uA
62	471.2mV	54.67V	21.73uA	469.5mV	54.44V	23.55uA
63	472.0mV	54.55V	22.63uA	467.7mV	54.90V	20.26uA
64	473.8mV	54.33V	20.65uA	474.0mV	54.50V	21.47uA
65	471.8mV	54.54V	20.87uA	472.4mV	54.86V	21.24uA
66	473.6mV	55.14V	24.88uA	467.3mV	54.97V	19.59uA
67	467.3mV	54.97V	21.45uA	468.6mV	54.83V	23.01uA
68	472.7mV	54.72V	19.43uA	468.8mV	54.89V	21.20uA
69	472.6mV	55.25V	20.46uA	468.1mV	54.80V	20.27uA
70	468.1mV	54.66V	23.79uA	472.4mV	54.94V	21.61uA
71	470.5mV	54.76V	19.53uA	471.4mV	54.72V	21.39uA
72	469.8mV	54.89V	22.36uA	471.1mV	55.05V	25.09uA
73	472.8mV	54.62V	25.09uA	468.0mV	54.80V	19.76uA
74	473.4mV	54.85V	20.06uA	469.3mV	55.15V	20.95uA
75	473.9mV	54.80V	20.48uA	468.2mV	54.64V	21.88uA
76	474.0mV	54.66V	19.70uA	471.2mV	54.78V	21.29uA
77	473.0mV	54.56V	24.25uA	468.4mV	54.75V	21.49uA

Made By: King Huang

Approval: Peter Yang



## High Temperature Storage Life Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 150°C, 1000Hrs

Test Date: 2020.03.10 ~ 2020.04.22

Test Standard : JESD22 STANDARD Method-A103

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
1	470.1mV	54.84V	20.06uA	471.2mV	54.68V	22.54uA
2	468.9mV	54.48V	22.80uA	469.4mV	54.69V	22.35uA
3	472.6mV	54.99V	20.15uA	471.0mV	54.47V	19.45uA
4	472.3mV	54.43V	20.44uA	468.3mV	55.06V	22.68uA
5	472.3mV	54.67V	24.24uA	470.7mV	55.05V	19.48uA
6	472.2mV	54.87V	23.73uA	471.9mV	54.51V	20.10uA
7	468.2mV	54.38V	22.45uA	467.1mV	55.13V	23.73uA
8	473.9mV	54.54V	23.60uA	473.4mV	54.83V	21.31uA
9	468.7mV	55.13V	19.35uA	472.4mV	54.67V	22.53uA
10	468.7mV	54.74V	21.45uA	473.3mV	54.85V	21.76uA
11	473.6mV	54.61V	20.31uA	471.5mV	54.54V	24.32uA
12	473.0mV	55.09V	19.61uA	473.6mV	54.86V	24.51uA
13	472.4mV	55.02V	20.14uA	473.8mV	54.57V	24.53uA
14	472.5mV	54.85V	23.43uA	469.6mV	54.75V	24.50uA
15	467.1mV	54.84V	24.74uA	472.3mV	54.54V	24.68uA
16	468.0mV	54.78V	21.38uA	468.8mV	55.00V	22.41uA
17	468.3mV	54.97V	21.36uA	471.3mV	54.59V	23.63uA
20	468.6mV	54.33V	21.16uA	471.8mV	55.02V	23.75uA
19	467.4mV	54.39V	24.59uA	471.2mV	54.99V	24.74uA
20	473.6mV	54.69V	21.24uA	470.9mV	55.11V	22.82uA
21	471.9mV	54.49V	20.77uA	469.0mV	54.42V	22.47uA
22	467.3mV	54.59V	21.38uA	467.7mV	54.69V	23.60uA
23	468.2mV	54.77V	22.28uA	469.6mV	54.78V	23.04uA
24	468.6mV	54.40V	23.28uA	471.4mV	55.00V	23.89uA
25	472.3mV	54.42V	22.82uA	472.4mV	54.73V	21.19uA
26	471.5mV	54.31V	24.21uA	469.1mV	55.09V	22.23uA
27	473.3mV	54.39V	23.91uA	470.6mV	54.44V	24.78uA
28	468.0mV	54.93V	21.26uA	471.6mV	55.03V	20.31uA
29	471.1mV	54.60V	24.65uA	468.7mV	54.60V	19.29uA
30	473.4mV	54.88V	20.42uA	472.9mV	54.52V	24.58uA



## High Temperature Storage Life Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 150°C, 1000Hrs

Test Date: 2020.03.10 ~ 2020.04.22

Test Standard : JESD22 STANDARD Method-A103

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
31	471.8mV	55.18V	20.32uA	472.7mV	54.70V	22.94uA
32	470.4mV	55.06V	24.03uA	473.4mV	55.15V	21.31uA
33	470.7mV	54.67V	25.04uA	468.7mV	55.01V	24.85uA
34	473.4mV	54.44V	24.41uA	473.7mV	55.16V	24.10uA
35	471.3mV	54.37V	20.79uA	473.9mV	54.88V	21.01uA
36	467.7mV	55.02V	23.34uA	470.1mV	55.13V	20.24uA
37	470.8mV	54.85V	23.48uA	470.0mV	54.48V	22.69uA
38	468.4mV	54.53V	19.46uA	472.1mV	54.95V	25.00uA
39	471.1mV	54.73V	19.38uA	473.0mV	54.44V	24.66uA
40	472.7mV	54.84V	20.23uA	470.8mV	54.98V	22.17uA
41	473.9mV	54.73V	21.62uA	472.0mV	54.89V	23.53uA
42	467.1mV	54.86V	24.77uA	469.6mV	54.81V	19.95uA
43	469.7mV	54.99V	21.96uA	467.7mV	54.83V	24.78uA
44	470.7mV	54.83V	21.06uA	467.8mV	55.02V	22.15uA
45	470.9mV	54.63V	25.12uA	470.7mV	54.78V	20.26uA
46	470.8mV	54.83V	21.46uA	471.9mV	55.07V	21.60uA
47	467.1mV	54.63V	20.15uA	471.3mV	54.53V	21.17uA
48	469.3mV	54.53V	23.68uA	468.9mV	55.04V	19.89uA
49	470.0mV	54.82V	23.97uA	468.2mV	55.20V	20.06uA
50	471.9mV	54.50V	24.25uA	470.3mV	55.15V	24.20uA
51	473.6mV	54.67V	25.09uA	473.0mV	55.11V	22.37uA
52	469.3mV	55.25V	21.33uA	469.4mV	55.20V	25.17uA
53	472.6mV	54.97V	21.43uA	467.4mV	55.10V	19.75uA
54	468.8mV	54.74V	20.98uA	468.3mV	55.23V	24.15uA
55	471.1mV	54.50V	19.74uA	471.2mV	55.07V	22.11uA
56	469.8mV	54.46V	20.62uA	473.2mV	54.66V	20.83uA
57	471.9mV	54.70V	19.30uA	470.1mV	54.81V	22.77uA
58	472.9mV	54.89V	22.44uA	470.7mV	54.57V	24.21uA
59	469.7mV	54.93V	24.34uA	470.7mV	54.90V	24.55uA
60	473.6mV	54.99V	20.50uA	467.8mV	54.69V	21.93uA



## High Temperature Storage Life Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 150°C, 1000Hrs

Test Date: 2020.03.10 ~ 2020.04.22

Test Standard : JESD22 STANDARD Method-A103

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
61	470.9mV	55.13V	22.76uA	471.5mV	55.25V	23.38uA
62	473.2mV	55.15V	22.98uA	472.0mV	54.74V	23.30uA
63	468.0mV	54.85V	20.67uA	472.8mV	55.17V	22.64uA
64	472.8mV	55.05V	23.46uA	467.1mV	55.15V	24.21uA
65	467.0mV	54.87V	20.27uA	467.5mV	54.50V	19.82uA
66	469.0mV	54.34V	25.00uA	469.1mV	55.07V	22.43uA
67	473.7mV	55.10V	22.69uA	469.2mV	55.04V	23.20uA
68	473.3mV	55.15V	22.29uA	471.1mV	55.05V	24.68uA
69	470.6mV	54.63V	21.01uA	473.6mV	55.23V	22.83uA
70	468.3mV	54.47V	20.92uA	471.6mV	54.70V	20.50uA
71	470.7mV	54.90V	23.30uA	470.5mV	55.08V	24.15uA
72	470.7mV	54.64V	21.79uA	468.4mV	54.44V	19.63uA
73	468.0mV	54.39V	22.36uA	472.1mV	54.69V	23.41uA
74	469.9mV	54.65V	20.36uA	469.4mV	55.01V	21.64uA
75	469.6mV	55.03V	23.33uA	470.7mV	55.12V	23.16uA
76	473.4mV	54.99V	23.78uA	473.9mV	55.26V	24.10uA
77	467.2mV	54.92V	23.75uA	468.5mV	54.63V	21.82uA

Made By: King Huang

Approval: Peter Yang



# SeCoS Corporation

## Pressure Cooker Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

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

Test Date: 2020.03.09 ~ 2020.03.17

Test Standard : JESD22 STANDARD Method-A102

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
1	469.6mV	54.45V	24.05uA	472.4mV	55.26V	22.38uA
2	468.2mV	54.33V	22.82uA	470.1mV	55.06V	23.92uA
3	472.2mV	55.08V	20.56uA	469.8mV	54.49V	23.66uA
4	471.2mV	54.63V	20.28uA	473.8mV	54.47V	21.59uA
5	467.5mV	54.98V	19.48uA	472.7mV	54.91V	20.74uA
6	472.0mV	55.12V	21.03uA	471.1mV	55.21V	24.23uA
7	470.6mV	54.67V	24.04uA	469.1mV	54.85V	24.15uA
8	469.5mV	55.05V	24.64uA	468.4mV	54.49V	22.92uA
9	470.1mV	55.09V	20.03uA	467.2mV	54.88V	24.67uA
10	469.2mV	54.74V	24.88uA	473.6mV	54.57V	19.31uA
11	470.0mV	55.01V	24.46uA	468.8mV	54.86V	19.79uA
12	471.0mV	55.12V	20.07uA	468.8mV	55.19V	23.46uA
13	471.0mV	55.02V	22.38uA	472.9mV	54.36V	24.50uA
14	473.4mV	54.65V	19.86uA	468.2mV	54.86V	22.21uA
15	473.4mV	55.10V	22.08uA	469.1mV	54.42V	24.14uA
16	470.6mV	55.09V	24.52uA	472.2mV	55.26V	23.07uA
17	473.4mV	55.13V	24.12uA	467.8mV	54.60V	24.38uA
20	471.3mV	55.13V	21.04uA	471.5mV	55.11V	21.16uA
19	468.4mV	54.46V	23.12uA	469.1mV	54.70V	21.34uA
20	467.5mV	55.05V	21.60uA	468.9mV	55.24V	22.47uA
21	469.0mV	55.11V	22.91uA	473.1mV	55.11V	25.02uA
22	473.3mV	54.66V	21.06uA	469.5mV	55.02V	21.91uA
23	471.6mV	55.05V	22.79uA	470.3mV	54.79V	19.86uA
24	468.3mV	54.75V	21.85uA	467.6mV	55.02V	22.94uA
25	469.4mV	54.47V	22.58uA	468.0mV	54.71V	21.91uA
26	470.6mV	54.33V	23.42uA	470.7mV	54.40V	22.07uA
27	469.6mV	54.98V	21.80uA	471.8mV	54.75V	20.94uA
28	470.6mV	54.71V	24.77uA	470.8mV	54.44V	21.32uA
29	472.1mV	54.59V	24.90uA	468.0mV	55.22V	23.16uA
30	472.5mV	54.55V	21.06uA	469.5mV	54.42V	22.09uA



# SeCoS Corporation

## Pressure Cooker Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

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

Test Date: 2020.03.09 ~ 2020.03.17

Test Standard : JESD22 STANDARD Method-A102

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
31	467.3mV	54.34V	24.97uA	468.8mV	54.50V	21.72uA
32	473.4mV	54.45V	25.02uA	472.3mV	54.65V	22.75uA
33	473.1mV	55.25V	24.44uA	469.8mV	54.50V	21.63uA
34	467.7mV	54.67V	23.72uA	468.0mV	54.72V	23.55uA
35	473.1mV	55.06V	20.53uA	470.1mV	54.86V	20.00uA
36	471.8mV	55.24V	20.54uA	467.8mV	55.01V	20.35uA
37	467.1mV	54.56V	24.14uA	470.1mV	54.67V	24.07uA
38	471.8mV	55.16V	23.22uA	469.8mV	54.85V	19.46uA
39	470.9mV	55.02V	19.41uA	470.7mV	55.02V	21.02uA
40	471.9mV	54.77V	20.41uA	470.9mV	54.85V	24.22uA
41	468.0mV	55.09V	19.74uA	470.5mV	55.15V	24.74uA
42	468.1mV	54.46V	21.80uA	473.8mV	55.08V	21.88uA
43	472.1mV	54.75V	23.89uA	467.2mV	54.73V	24.63uA
44	472.5mV	54.63V	24.31uA	471.5mV	55.16V	24.49uA
45	473.4mV	54.45V	24.87uA	467.9mV	55.11V	24.05uA
46	471.4mV	54.56V	21.04uA	469.0mV	55.05V	24.61uA
47	471.9mV	54.58V	19.83uA	467.1mV	54.31V	21.58uA
48	467.1mV	54.74V	21.05uA	467.3mV	54.47V	22.70uA
49	473.3mV	54.34V	19.59uA	470.6mV	54.42V	19.68uA
50	468.5mV	54.95V	22.27uA	471.2mV	55.19V	24.35uA
51	473.7mV	54.76V	24.46uA	471.0mV	54.55V	19.91uA
52	468.6mV	55.16V	24.98uA	473.7mV	54.96V	24.98uA
53	473.1mV	55.15V	21.45uA	470.1mV	54.60V	19.74uA
54	471.0mV	54.72V	22.23uA	471.3mV	54.34V	20.69uA
55	467.3mV	54.89V	19.68uA	467.9mV	54.68V	22.36uA
56	469.2mV	54.47V	19.51uA	468.6mV	54.57V	24.84uA
57	470.3mV	54.68V	21.81uA	467.0mV	54.32V	25.13uA
58	473.6mV	54.74V	21.17uA	473.1mV	54.66V	22.54uA
59	469.8mV	55.09V	19.24uA	468.9mV	54.52V	19.57uA
60	468.9mV	54.81V	22.76uA	467.1mV	54.57V	20.36uA



# SeCoS Corporation

## Pressure Cooker Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

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

Test Date: 2020.03.09 ~ 2020.03.17

Test Standard : JESD22 STANDARD Method-A102

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
61	468.8mV	54.88V	22.31uA	473.2mV	55.24V	22.48uA
62	469.6mV	54.84V	23.25uA	470.1mV	54.32V	23.52uA
63	469.3mV	54.57V	23.25uA	472.3mV	54.81V	21.24uA
64	471.2mV	55.19V	24.83uA	471.0mV	55.16V	24.48uA
65	469.4mV	55.03V	20.96uA	472.9mV	55.10V	21.77uA
66	470.7mV	55.13V	22.14uA	470.2mV	54.45V	23.44uA
67	469.7mV	54.48V	21.22uA	473.6mV	54.39V	22.86uA
68	473.2mV	55.05V	24.43uA	472.3mV	54.75V	19.36uA
69	471.3mV	55.19V	23.74uA	467.8mV	55.01V	24.66uA
70	470.8mV	54.93V	21.81uA	468.9mV	55.02V	19.81uA
71	470.3mV	54.96V	22.02uA	471.4mV	54.37V	22.55uA
72	468.9mV	54.73V	22.48uA	468.1mV	54.49V	21.84uA
73	470.4mV	54.87V	21.80uA	467.8mV	54.96V	24.86uA
74	468.6mV	54.65V	21.39uA	467.2mV	54.55V	20.41uA
75	469.4mV	54.79V	20.32uA	471.8mV	55.00V	21.24uA
76	473.5mV	55.08V	24.20uA	471.9mV	54.91V	22.94uA
77	473.0mV	54.64V	24.23uA	470.6mV	55.16V	19.24uA

Made By: King Huang

Approval: Peter Yang



# SeCoS Corporation

## Temperature Cycle Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

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

Test Date: 2020.03.17 ~ 2020.05.08

Test Standard : JESD22 STANDARD Method-A104

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
1	468.7mV	55.20V	21.56uA	468.5mV	54.80V	20.07uA
2	469.6mV	54.87V	22.09uA	468.1mV	54.47V	23.27uA
3	468.9mV	54.63V	22.36uA	470.5mV	54.47V	24.62uA
4	470.5mV	54.58V	20.81uA	473.6mV	54.74V	22.41uA
5	469.2mV	55.23V	21.56uA	470.5mV	55.04V	21.85uA
6	471.6mV	54.54V	21.72uA	471.8mV	54.74V	19.89uA
7	472.3mV	54.63V	22.17uA	469.5mV	54.85V	24.12uA
8	468.7mV	54.65V	23.74uA	470.9mV	54.91V	25.18uA
9	468.3mV	54.36V	23.90uA	472.6mV	54.92V	19.38uA
10	468.2mV	54.38V	20.94uA	468.0mV	54.96V	24.73uA
11	469.2mV	55.16V	21.85uA	470.5mV	54.44V	22.85uA
12	470.1mV	54.69V	24.36uA	468.7mV	54.83V	23.05uA
13	471.1mV	54.46V	22.29uA	472.9mV	55.09V	21.26uA
14	471.2mV	54.94V	23.87uA	470.2mV	55.05V	22.27uA
15	467.9mV	54.49V	22.58uA	468.2mV	54.98V	19.27uA
16	468.6mV	54.56V	22.29uA	474.0mV	54.56V	23.88uA
17	468.6mV	54.69V	23.09uA	467.1mV	54.83V	21.76uA
20	469.7mV	54.87V	24.21uA	472.1mV	54.52V	19.39uA
19	467.4mV	55.23V	19.49uA	473.8mV	54.84V	20.43uA
20	470.7mV	54.42V	24.70uA	474.0mV	54.63V	21.76uA
21	468.3mV	54.96V	21.44uA	467.9mV	55.17V	21.74uA
22	473.2mV	54.80V	23.71uA	468.6mV	54.84V	22.19uA
23	469.8mV	55.27V	21.70uA	471.6mV	55.26V	20.23uA
24	467.0mV	55.01V	20.00uA	470.8mV	54.43V	24.02uA
25	472.1mV	55.12V	20.34uA	467.4mV	54.89V	24.57uA
26	473.5mV	54.35V	20.94uA	470.9mV	54.63V	21.15uA
27	470.4mV	54.55V	21.38uA	467.1mV	54.58V	22.51uA
28	472.1mV	55.21V	21.12uA	473.3mV	55.21V	21.43uA
29	470.5mV	54.74V	24.85uA	469.0mV	54.80V	19.85uA
30	469.7mV	55.17V	21.83uA	468.6mV	54.53V	20.34uA





## Temperature Cycle Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

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

Test Date: 2020.03.17 ~ 2020.05.08

Test Standard : JESD22 STANDARD Method-A104

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
31	470.4mV	55.08V	22.28uA	468.2mV	54.90V	20.86uA
32	472.6mV	54.64V	23.59uA	469.4mV	55.25V	24.30uA
33	469.9mV	55.16V	20.84uA	468.0mV	54.85V	22.79uA
34	467.5mV	55.07V	21.93uA	472.2mV	54.79V	22.40uA
35	467.3mV	54.50V	22.09uA	470.8mV	55.07V	19.92uA
36	472.7mV	54.47V	22.51uA	472.5mV	55.22V	23.64uA
37	471.2mV	55.13V	19.78uA	467.6mV	54.71V	24.84uA
38	472.7mV	55.12V	20.66uA	469.0mV	54.43V	20.46uA
39	468.8mV	55.21V	22.15uA	473.4mV	54.99V	24.08uA
40	468.7mV	54.94V	19.98uA	469.4mV	54.95V	21.58uA
41	472.2mV	55.21V	21.46uA	467.4mV	54.32V	20.78uA
42	468.6mV	54.41V	25.15uA	473.2mV	54.79V	20.82uA
43	467.7mV	54.97V	22.80uA	472.6mV	55.20V	21.72uA
44	473.9mV	54.42V	23.18uA	471.9mV	54.32V	21.17uA
45	470.4mV	54.48V	24.26uA	473.5mV	54.98V	23.04uA
46	472.2mV	54.92V	19.46uA	471.1mV	54.54V	23.82uA
47	473.4mV	54.79V	24.65uA	470.3mV	54.58V	19.72uA
48	467.4mV	54.47V	23.46uA	470.0mV	55.04V	20.75uA
49	472.0mV	54.55V	24.11uA	472.7mV	55.14V	21.04uA
50	469.1mV	54.73V	22.44uA	467.1mV	54.60V	22.52uA
51	471.3mV	55.01V	23.38uA	472.7mV	54.31V	23.28uA
52	468.4mV	54.95V	22.36uA	469.2mV	54.79V	19.26uA
53	468.2mV	55.14V	19.39uA	473.0mV	54.40V	19.43uA
54	471.4mV	55.22V	24.08uA	469.0mV	54.67V	21.23uA
55	470.4mV	55.20V	20.93uA	469.8mV	55.03V	25.15uA
56	473.8mV	54.37V	20.09uA	469.4mV	54.69V	25.06uA
57	472.8mV	54.36V	22.66uA	468.2mV	55.19V	20.96uA
58	473.9mV	54.95V	23.96uA	470.1mV	54.88V	22.00uA
59	469.5mV	54.90V	20.98uA	467.1mV	54.37V	22.29uA
60	471.2mV	54.32V	19.44uA	468.8mV	55.02V	24.22uA



# SeCoS Corporation

## Temperature Cycle Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

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

Test Date: 2020.03.17 ~ 2020.05.08

Test Standard : JESD22 STANDARD Method-A104

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
61	468.3mV	54.75V	19.58uA	470.7mV	54.97V	22.71uA
62	472.8mV	55.13V	23.50uA	467.0mV	55.07V	19.52uA
63	473.5mV	54.35V	24.01uA	470.0mV	54.80V	19.51uA
64	469.8mV	54.65V	19.75uA	469.3mV	54.73V	22.80uA
65	467.3mV	54.89V	23.10uA	473.3mV	54.49V	20.57uA
66	473.6mV	54.36V	19.56uA	471.3mV	54.88V	20.06uA
67	471.9mV	54.56V	21.02uA	470.0mV	54.54V	22.80uA
68	472.0mV	54.74V	23.13uA	469.9mV	54.50V	20.24uA
69	471.4mV	55.11V	21.80uA	472.0mV	55.00V	21.90uA
70	472.4mV	54.56V	21.48uA	468.9mV	55.22V	22.49uA
71	469.6mV	55.22V	24.33uA	472.6mV	54.73V	20.33uA
72	468.5mV	54.79V	20.25uA	469.5mV	54.33V	22.73uA
73	471.6mV	55.18V	22.90uA	473.2mV	54.66V	19.54uA
74	469.8mV	54.46V	22.15uA	471.7mV	54.44V	23.87uA
75	470.2mV	55.11V	20.43uA	470.9mV	55.02V	21.33uA
76	470.5mV	55.04V	19.24uA	468.8mV	54.91V	25.08uA
77	473.5mV	54.69V	24.13uA	471.1mV	54.73V	21.07uA

Made By: King Huang

Approval: Peter Yang



## High Temperature High Humidity Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

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

Test Date: 2020.03.17 ~ 2020.04.29

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
1	471.0mV	54.33V	24.62uA	472.1mV	54.85V	20.26uA
2	469.2mV	54.46V	24.71uA	470.0mV	54.57V	24.36uA
3	472.8mV	54.71V	20.30uA	467.7mV	54.51V	21.99uA
4	467.9mV	54.84V	21.48uA	472.2mV	55.22V	24.54uA
5	471.9mV	55.12V	20.10uA	467.3mV	54.63V	21.95uA
6	468.0mV	54.59V	24.76uA	469.5mV	54.90V	23.87uA
7	471.0mV	55.24V	24.66uA	471.7mV	55.25V	22.34uA
8	470.7mV	54.63V	19.90uA	469.5mV	54.53V	20.05uA
9	473.5mV	54.51V	20.34uA	473.0mV	54.59V	22.23uA
10	473.7mV	54.45V	24.23uA	470.1mV	54.75V	22.55uA
11	468.2mV	55.01V	24.77uA	470.6mV	54.93V	21.79uA
12	472.9mV	55.07V	21.21uA	467.5mV	54.60V	23.73uA
13	469.0mV	54.91V	21.22uA	468.3mV	54.52V	24.24uA
14	469.6mV	54.64V	22.92uA	470.2mV	55.22V	20.59uA
15	468.2mV	55.18V	24.62uA	467.7mV	54.42V	22.59uA
16	472.3mV	54.92V	21.51uA	473.1mV	55.18V	20.43uA
17	473.9mV	55.21V	21.53uA	468.5mV	55.17V	23.21uA
20	470.1mV	54.74V	21.74uA	469.7mV	55.08V	24.12uA
19	468.6mV	54.53V	21.53uA	467.8mV	55.16V	24.93uA
20	468.8mV	54.88V	23.96uA	469.1mV	54.32V	22.73uA
21	467.2mV	54.83V	20.00uA	467.2mV	54.40V	23.10uA
22	472.3mV	55.12V	21.28uA	469.2mV	54.36V	24.53uA
23	469.5mV	54.40V	23.32uA	470.3mV	54.60V	23.87uA
24	472.7mV	54.79V	23.60uA	473.6mV	54.60V	20.47uA
25	468.0mV	54.44V	20.89uA	470.0mV	54.49V	22.76uA
26	472.4mV	54.80V	21.84uA	473.8mV	54.65V	23.72uA
27	469.5mV	54.49V	22.62uA	469.0mV	54.61V	23.08uA
28	469.2mV	54.77V	21.38uA	467.6mV	54.59V	19.97uA
29	471.5mV	55.02V	21.55uA	473.3mV	54.34V	20.17uA
30	472.1mV	54.83V	23.27uA	467.2mV	54.33V	22.67uA



## High Temperature High Humidity Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

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

Test Date: 2020.03.17 ~ 2020.04.29

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
31	471.9mV	54.32V	20.54uA	469.4mV	54.65V	19.43uA
32	467.9mV	55.20V	21.78uA	473.2mV	54.80V	19.35uA
33	470.5mV	54.65V	24.51uA	473.5mV	54.98V	24.93uA
34	471.2mV	55.01V	20.28uA	468.2mV	54.59V	21.94uA
35	470.4mV	54.71V	20.33uA	468.0mV	54.74V	19.80uA
36	469.9mV	54.79V	24.32uA	471.5mV	54.61V	21.83uA
37	470.6mV	54.88V	19.40uA	470.5mV	55.14V	23.05uA
38	473.1mV	54.45V	24.72uA	471.3mV	55.17V	22.56uA
39	468.4mV	54.42V	24.19uA	474.0mV	55.27V	22.83uA
40	471.9mV	55.25V	20.96uA	467.5mV	55.16V	23.47uA
41	467.9mV	54.93V	21.34uA	471.1mV	54.87V	25.10uA
42	472.1mV	54.34V	19.28uA	469.6mV	54.36V	22.83uA
43	471.5mV	55.00V	20.05uA	472.9mV	54.86V	19.52uA
44	474.0mV	54.94V	24.55uA	470.9mV	54.80V	21.86uA
45	467.4mV	55.21V	22.10uA	472.5mV	54.89V	22.67uA
46	471.0mV	54.95V	24.68uA	473.0mV	54.82V	21.01uA
47	469.7mV	54.39V	20.00uA	471.8mV	55.07V	21.41uA
48	472.0mV	54.34V	19.71uA	469.1mV	54.96V	21.78uA
49	473.6mV	54.67V	21.13uA	472.8mV	54.54V	23.20uA
50	473.7mV	55.18V	22.36uA	473.5mV	54.56V	23.71uA
51	470.2mV	54.44V	22.08uA	469.8mV	55.21V	24.52uA
52	472.6mV	55.17V	24.27uA	467.4mV	54.99V	22.02uA
53	472.2mV	54.71V	22.07uA	467.6mV	55.07V	24.08uA
54	469.6mV	54.72V	21.94uA	469.1mV	54.61V	24.23uA
55	469.0mV	54.76V	21.56uA	471.1mV	54.59V	24.92uA
56	471.4mV	54.53V	23.83uA	472.0mV	55.19V	19.36uA
57	473.4mV	54.61V	22.88uA	472.6mV	55.27V	23.17uA
58	471.8mV	54.39V	22.95uA	471.9mV	55.19V	24.33uA
59	471.0mV	55.12V	22.02uA	470.6mV	54.70V	24.05uA
60	469.1mV	54.82V	23.06uA	471.8mV	54.80V	23.76uA



## High Temperature High Humidity Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

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

Test Date: 2020.03.17 ~ 2020.04.29

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
61	467.9mV	55.07V	25.08uA	469.1mV	54.38V	20.09uA
62	467.4mV	54.78V	19.90uA	474.0mV	54.80V	23.52uA
63	467.3mV	55.06V	24.80uA	467.1mV	54.97V	21.22uA
64	468.3mV	54.50V	24.00uA	467.8mV	55.06V	23.63uA
65	469.0mV	54.79V	21.05uA	473.9mV	55.15V	21.29uA
66	473.7mV	54.93V	22.60uA	469.5mV	55.24V	24.46uA
67	473.4mV	54.48V	20.12uA	471.1mV	54.54V	22.77uA
68	469.6mV	54.61V	21.10uA	473.9mV	54.47V	24.27uA
69	467.1mV	55.15V	21.99uA	469.7mV	54.52V	23.25uA
70	472.7mV	55.08V	22.63uA	472.9mV	54.86V	21.99uA
71	468.1mV	55.02V	22.58uA	470.5mV	54.33V	24.81uA
72	467.2mV	55.12V	20.29uA	470.9mV	54.38V	24.22uA
73	469.9mV	54.99V	22.21uA	468.0mV	54.48V	22.10uA
74	472.3mV	55.04V	22.44uA	469.6mV	54.34V	20.05uA
75	469.1mV	55.00V	20.79uA	467.4mV	54.37V	21.94uA
76	468.9mV	54.82V	22.90uA	469.0mV	54.31V	24.32uA
77	470.1mV	55.05V	22.91uA	467.0mV	54.52V	23.84uA

Made By: King Huang

Approval: Peter Yang



## High Temper High Humidity Reverse Bies Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 85±2°C, 85±5%RH, 80% VR, 1000Hrs

Test Date: 2020.03.17 ~ 2020.04.29

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
1	471.3mV	55.17V	19.54uA	468.7mV	54.59V	20.45uA
2	469.2mV	54.37V	24.25uA	472.2mV	55.21V	22.09uA
3	468.5mV	54.46V	22.80uA	469.6mV	54.69V	24.02uA
4	467.9mV	55.11V	22.19uA	470.1mV	54.61V	22.23uA
5	469.9mV	54.52V	24.75uA	469.7mV	54.95V	19.62uA
6	468.0mV	54.59V	20.73uA	471.0mV	54.76V	21.66uA
7	472.7mV	54.94V	20.83uA	468.9mV	54.77V	22.27uA
8	467.3mV	55.09V	20.15uA	470.8mV	54.53V	20.83uA
9	472.0mV	54.66V	20.39uA	469.0mV	54.36V	21.21uA
10	473.8mV	54.80V	24.17uA	471.4mV	54.44V	22.28uA
11	472.6mV	55.15V	23.40uA	469.7mV	54.43V	22.01uA
12	470.4mV	55.17V	21.40uA	471.2mV	55.04V	23.29uA
13	473.7mV	54.46V	21.87uA	469.2mV	54.86V	23.76uA
14	471.4mV	55.00V	24.28uA	470.0mV	54.61V	24.72uA
15	468.0mV	55.09V	22.94uA	472.2mV	54.34V	22.41uA
16	468.2mV	54.62V	24.44uA	473.5mV	54.52V	22.35uA
17	472.1mV	54.91V	23.51uA	470.5mV	55.23V	19.80uA
20	472.6mV	55.25V	24.94uA	467.3mV	54.91V	24.05uA
19	472.9mV	55.09V	23.51uA	473.4mV	54.48V	23.70uA
20	468.2mV	54.85V	24.97uA	470.5mV	54.97V	19.77uA
21	469.1mV	54.55V	20.42uA	468.8mV	54.53V	24.32uA
22	472.2mV	54.40V	22.26uA	473.3mV	55.00V	24.61uA
23	473.0mV	54.83V	21.55uA	473.7mV	54.70V	21.63uA
24	473.2mV	55.26V	20.75uA	467.3mV	55.21V	21.00uA
25	474.0mV	54.74V	21.60uA	469.7mV	55.13V	20.66uA
26	467.2mV	54.49V	24.22uA	473.4mV	54.51V	24.33uA
27	469.4mV	55.17V	21.71uA	468.1mV	54.52V	20.60uA
28	467.1mV	54.92V	21.39uA	470.9mV	54.87V	19.42uA
29	471.8mV	55.11V	21.64uA	468.6mV	54.93V	24.32uA
30	473.5mV	54.86V	19.38uA	472.7mV	54.61V	22.82uA



## High Temper High Humidity Reverse Bies Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 85±2°C, 85±5%RH, 80% VR, 1000Hrs

Test Date: 2020.03.17 ~ 2020.04.29

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
31	472.7mV	54.40V	20.70uA	469.3mV	54.39V	21.67uA
32	470.9mV	54.77V	22.71uA	467.7mV	55.02V	20.53uA
33	468.8mV	54.39V	22.46uA	473.1mV	55.27V	21.07uA
34	473.5mV	55.02V	23.63uA	468.3mV	55.13V	20.80uA
35	471.9mV	54.90V	24.92uA	471.7mV	54.78V	21.55uA
36	472.2mV	54.44V	24.31uA	467.9mV	54.50V	23.64uA
37	468.9mV	55.04V	21.96uA	468.8mV	54.53V	19.26uA
38	468.5mV	54.83V	19.60uA	473.9mV	55.17V	24.65uA
39	472.7mV	55.00V	21.69uA	467.8mV	54.64V	19.87uA
40	473.6mV	54.78V	22.02uA	469.5mV	54.75V	22.26uA
41	472.5mV	54.56V	21.29uA	472.6mV	55.20V	22.22uA
42	467.9mV	54.35V	23.13uA	468.9mV	54.92V	21.38uA
43	471.0mV	54.89V	20.72uA	473.6mV	54.63V	21.76uA
44	467.1mV	55.19V	24.04uA	467.8mV	55.06V	22.48uA
45	468.1mV	54.32V	20.18uA	471.4mV	54.59V	23.63uA
46	468.7mV	55.15V	20.15uA	473.4mV	54.90V	23.33uA
47	472.8mV	54.94V	19.81uA	467.1mV	55.07V	21.28uA
48	470.5mV	54.56V	24.55uA	469.6mV	54.63V	22.69uA
49	473.2mV	55.22V	24.47uA	470.9mV	54.55V	23.52uA
50	469.2mV	54.37V	22.93uA	467.7mV	55.15V	22.22uA
51	467.6mV	54.82V	22.83uA	467.4mV	54.68V	22.89uA
52	470.8mV	54.85V	25.15uA	473.6mV	54.60V	24.57uA
53	471.3mV	55.21V	23.82uA	471.3mV	54.79V	19.56uA
54	468.2mV	54.35V	21.73uA	470.1mV	55.10V	20.23uA
55	470.9mV	54.81V	23.49uA	473.6mV	54.86V	20.02uA
56	472.7mV	55.23V	19.50uA	471.7mV	54.87V	20.08uA
57	471.2mV	55.15V	20.95uA	470.0mV	54.58V	21.50uA
58	469.9mV	54.62V	21.78uA	472.0mV	55.04V	23.51uA
59	469.3mV	55.16V	20.54uA	471.7mV	54.92V	23.43uA
60	467.1mV	54.68V	20.15uA	467.0mV	55.20V	21.32uA



## High Temper High Humidity Reverse Bies Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 85±2°C, 85±5%RH, 80% VR, 1000Hrs

Test Date: 2020.03.17 ~ 2020.04.29

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
61	470.9mV	54.77V	24.98uA	473.6mV	54.73V	22.65uA
62	467.7mV	55.21V	19.94uA	473.6mV	54.94V	22.49uA
63	467.2mV	54.60V	22.03uA	470.0mV	54.47V	23.54uA
64	470.8mV	54.60V	24.25uA	468.2mV	54.56V	24.73uA
65	470.6mV	54.52V	20.66uA	472.0mV	54.70V	24.99uA
66	471.8mV	54.84V	23.69uA	471.4mV	54.72V	19.97uA
67	471.4mV	55.14V	23.91uA	467.0mV	54.84V	24.73uA
68	467.6mV	55.16V	24.12uA	472.1mV	55.23V	23.13uA
69	468.3mV	55.02V	23.72uA	473.5mV	54.32V	23.44uA
70	473.4mV	54.53V	22.57uA	470.7mV	54.38V	21.66uA
71	468.5mV	54.97V	21.84uA	471.7mV	54.96V	21.26uA
72	473.9mV	55.11V	22.70uA	471.0mV	55.04V	23.96uA
73	469.0mV	54.76V	19.38uA	468.0mV	54.34V	20.65uA
74	468.4mV	55.03V	25.10uA	468.4mV	55.26V	22.67uA
75	467.6mV	54.74V	22.80uA	468.4mV	54.76V	22.63uA
76	473.8mV	55.26V	24.59uA	468.2mV	54.54V	21.07uA
77	468.0mV	54.55V	24.14uA	467.2mV	55.07V	22.99uA

Made By: King Huang

Approval: Peter Yang





# SeCoS Corporation

## Solderability Test Data

Report No : T200508-140P

Part No : SCS140P-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : VF<520mV@IF=1A, VB>40V@IR=1mA, IR<100uA@VR=40V

Test Condition: 245°C ± 5°C, 5Sec

Test Date: 2020.05.08

Test Standard : JESD22 STANDER Method-B102

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	VF	VB	IR	VF	VB	IR
1	471.7mV	54.48V	23.83uA	467.6mV	54.76V	22.62uA
2	469.4mV	55.02V	25.07uA	470.3mV	54.76V	22.09uA
3	467.8mV	55.04V	24.40uA	470.1mV	54.91V	21.19uA
4	471.1mV	54.70V	20.99uA	469.3mV	55.14V	20.11uA
5	468.0mV	55.06V	23.97uA	468.8mV	55.22V	24.76uA
6	467.5mV	55.07V	21.89uA	472.6mV	54.60V	21.58uA
7	469.8mV	54.97V	24.67uA	470.7mV	54.52V	25.14uA
8	470.2mV	54.44V	24.57uA	471.8mV	54.78V	20.96uA
9	468.6mV	55.12V	21.72uA	469.0mV	54.71V	20.04uA
10	469.7mV	55.23V	19.92uA	470.6mV	54.44V	22.30uA

Made By: King Huang

Approval: Peter Yang