www.SeCosGmbH.com

Headquarter Address:
8F.No.33, Lane 155, Sec.3, Bei-Shen Rd.,
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Product/Process Change Notification

PCN#	Effective Date	Issue Date
2021-03-05C-01	2021/6/5	2021/3/5

PCN Classification	Product Category
Major	SOD-123

Subject
Wafer Change

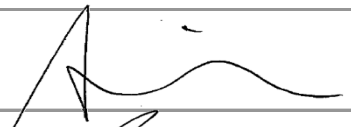
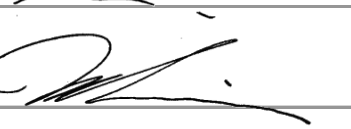
Affected Product(s)
SCS160P-C

Description of Change(s)
The original wafer fundry house shut down, we changed to the second wafer fundry house.

Content of Change(s)
Wafer. Marking code.

Impact(s)
N/A

Attachment(s)
Reliability Teat Report. Specifications.

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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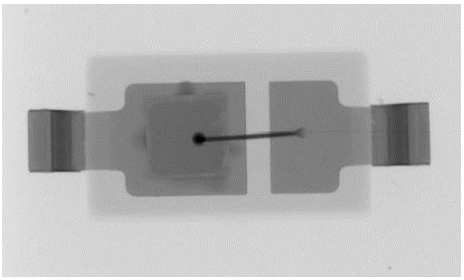
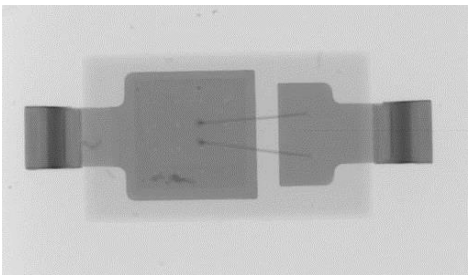
Electrical Comparison Chart

			SPEC	original	New
Elec	VBR @ 1mA	25℃	60V	76.27V	72.69V
	VF @ 1A	25℃	0.65V	580.4mV	503mV
		75℃	-	573.94mV	477.48mV
		125℃	0.85V	543.88mV	454.28mV
	IR @ 60V	25℃	80uA	25.06uA	10.17uA
		75℃	-	554.38uA	359.88uA
Capacitance(pF)	0V		120pF (Typ.)	113.1pF	196.9pF
	4V		-	35.7pF	61.2pF
Forward Surge > 10A			10A	14A_FAILURE	16A_FAILURE

Exterior comparison Chart

Original	Modified
	
Marking	Marking
	
X-Ray	X-Ray

Elektronische Bauelemente

SCS160P-C

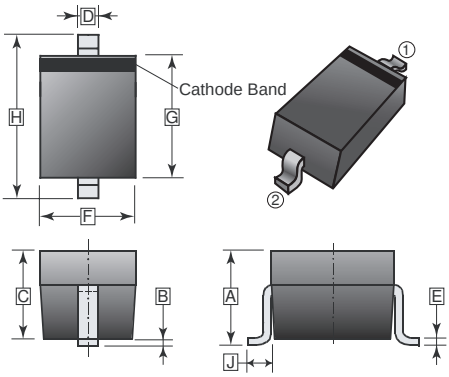
1A, 60V
Schottky Barrier Rectifiers

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering: 250℃ for 10 Seconds at Term inals
- Low Forward Voltage

SOD-123



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.94	1.35	F	1.40	1.80
B	0.10 REF.		G	2.54	2.85
C	1.00	1.30	H	3.55	3.86
D	0.30	0.78	J	0.50 REF.	
E	0.08	0.25			

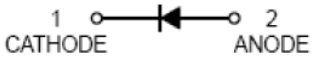
MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Solderable Per MIL-STD-202, Method 208 Guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any

MARKING

XG

76



PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-123	3K	7 inch

ORDER INFORMATION

Part Number	Type
SCS160P-C	Lead (Pb)-free and Halogen-free

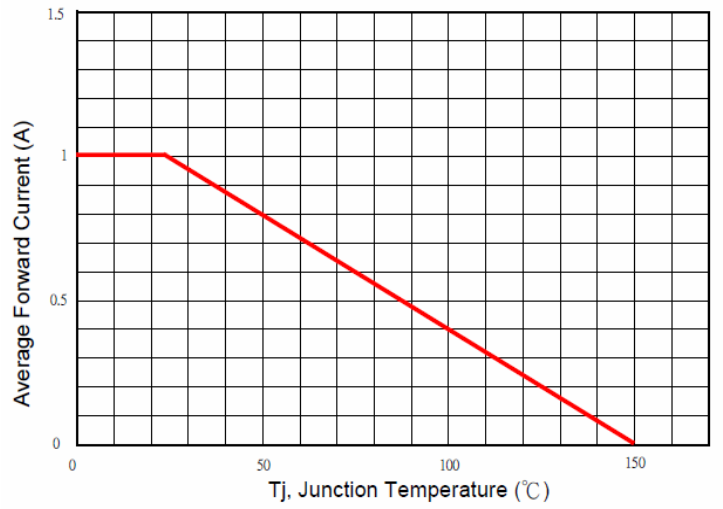
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise specified)

Parameter		Symbol	Ratings	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	60	V
Working Peak Reverse Voltage		V_{RWM}	60	V
Maximum DC Blocking Voltage		V_R	60	V
Average Forward Current	T_J=25℃	$I_{F(AV)}$	1	A
Peak Forward Current @8.3ms Half Sine		I_{FSM}	10	A
Maximum Instantaneous Forward Voltage @I_{FM}=1A	T_A=25℃	V_F	0.65	V
	T_A=125℃		0.58	
Maximum DC Reverse Current @Rated DC Blocking Voltage	T_J=25℃	I_R	80	μA
	T_J=100℃		10	mA
Typical Junction Capacitance [1]		C_J	120	pF
Typical Thermal Resistance from Junction-Ambient [2]		$R_{\theta JA}$	310	℃/W
Operating and Storage Temperature Range		T_J, T_{STG}	-55~150	℃

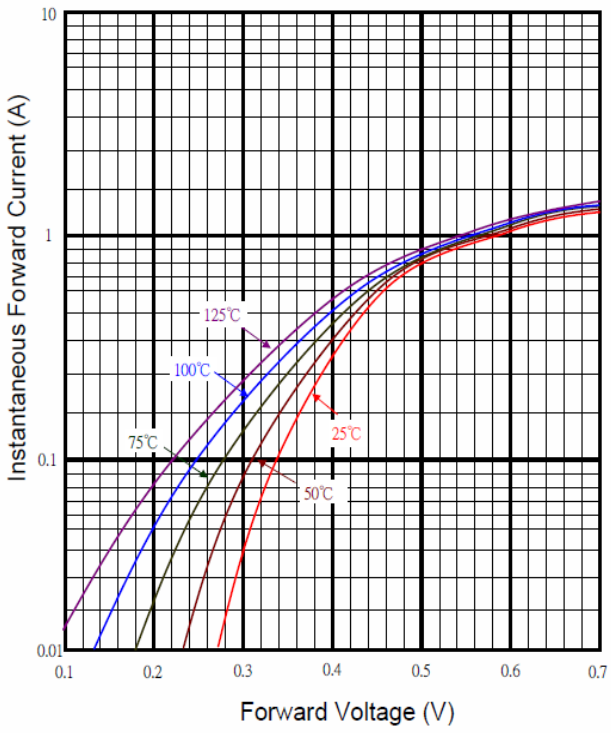
Notes:
1. Measured at 1MHz and applied reverse of 0V D.C.
2. FR-4 PCB, 2oz. 0.7mm×1.2mm copper pad.

RATINGS AND CHARACTERISTIC CURVES

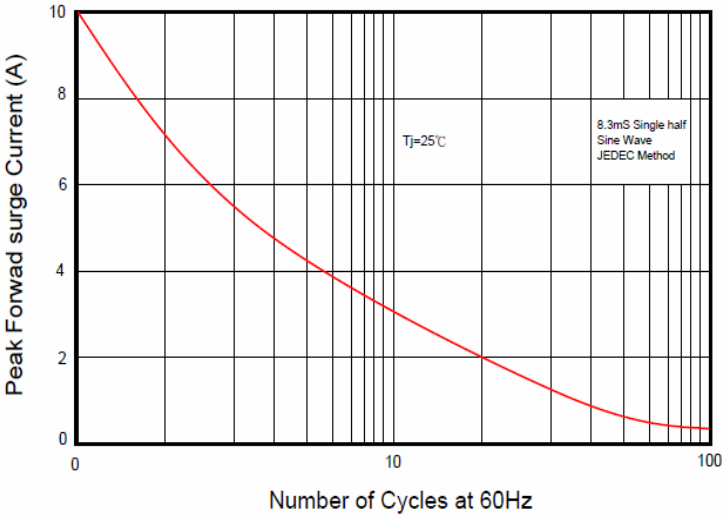
Typical Forward Current Derating Curve



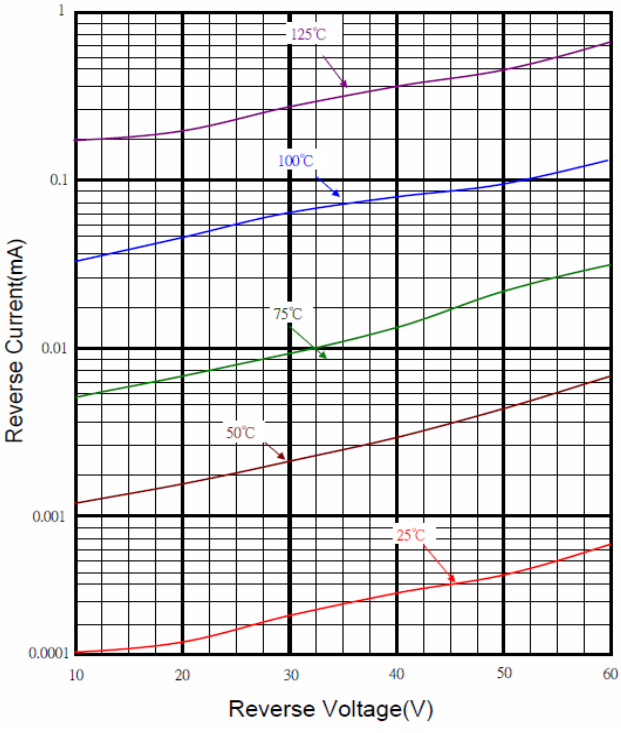
Typical Forward Characteristic



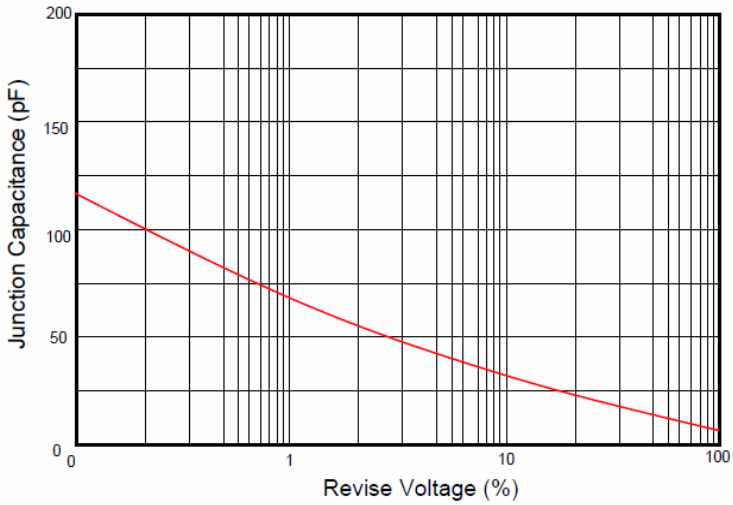
Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic



Typical Junction Capacitance



SeCoS Corporation

Reliability Testing Summary Report

Date: 2021/02/24 Document No.: SO21 -02-SCS160P

Test Item	P/N	Test Condition	(LTPD)	Sample Numbers	Allow Fall Numbers	Fall Numbers	Result
HTRB High Temp Reverse Bias	SCS160P-C	100 ± 5℃, 80%VR, T = 1000hrs		77	0	0	ACC
HTSL High Temperature Storage Life	SCS160P-C	150℃, T = 1000 hrs		77	0	0	ACC
PCT Pressure Cooker Test	SCS160P-C	121℃, 29.7PSIG, 168 hrs		77	0	0	ACC
TCT Temperature Cycle Test	SCS160P-C	-55℃/30min, 150℃/30min, For 1000 Cycle		77	0	0	ACC
THT High Temperature High Humidity Test	SCS160P-C	85 ± 2℃, RH=85±5%, 1000 hrs		77	0	0	ACC
H3TRB High Temper High Humidity Reverse Bies Test	SCS160P-C	85 ± 2℃, RH=85±5%, 80%VR, 1000 hrs		77	0	0	ACC
Solderability	SCS160P-C	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: 2020.12.28 Testing End Date: 2021.02.24

Tester: King Huang Approval: Peter Yang

SeCoS Corporation

Electrical Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 25℃
Test Date: 2020.12.28
Test Standard : Specifications
Operator: Leo Hsia

Test Result: PASS

No	VF	VB	IR
1	496.2mV	73.76V	11.95uA
2	485.4mV	68.99V	11.83uA
3	489.5mV	75.51V	13.15uA
4	489.2mV	74.30V	11.22uA
5	487.4mV	74.93V	9.81uA
6	490.6mV	69.22V	8.89uA
7	491.6mV	70.30V	11.36uA
8	485.8mV	73.32V	10.23uA
9	498.8mV	72.34V	9.35uA
10	499.0mV	69.00V	9.39uA
11	492.4mV	68.34V	12.40uA
12	486.1mV	69.14V	9.80uA
13	495.9mV	72.60V	8.26uA
14	493.9mV	75.38V	13.14uA
15	487.5mV	69.61V	10.52uA
16	484.3mV	74.12V	13.07uA
17	484.7mV	69.51V	11.25uA
18	493.3mV	71.13V	13.29uA
19	488.1mV	74.16V	13.70uA
20	498.5mV	74.62V	9.86uA
21	486.6mV	75.96V	10.87uA
22	489.0mV	71.44V	8.33uA
23	485.8mV	68.43V	10.52uA
24	488.9mV	69.86V	9.88uA
25	486.0mV	70.80V	11.38uA
26	492.6mV	74.04V	8.29uA
27	500.9mV	76.18V	12.16uA
28	499.7mV	74.04V	12.58uA
29	490.5mV	75.11V	13.87uA
30	486.3mV	69.14V	11.40uA
31	488.9mV	73.11V	12.90uA

SeCoS Corporation

Electrical Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 25℃
Test Date: 2020.12.28
Test Standard : Specifications
Operator: Leo Hsia

Test Result: PASS

No	VF	VB	IR
32	489.6mV	73.12V	8.16uA
33	484.8mV	75.42V	10.34uA
34	496.3mV	75.03V	12.82uA
35	491.3mV	74.05V	11.16uA
36	487.2mV	71.48V	12.17uA
37	489.9mV	71.66V	13.29uA
38	484.1mV	72.56V	11.48uA
39	499.0mV	74.18V	13.42uA
40	493.0mV	69.75V	12.20uA
41	497.3mV	69.44V	13.65uA
42	493.3mV	72.78V	8.77uA
43	486.8mV	72.56V	12.40uA
44	492.0mV	73.83V	10.95uA
45	486.6mV	73.75V	9.60uA
46	488.2mV	75.37V	11.21uA
47	501.8mV	73.68V	11.08uA
48	501.2mV	72.57V	9.28uA
49	494.4mV	70.87V	11.13uA
50	493.5mV	70.63V	13.31uA
51	483.1mV	68.74V	12.56uA
52	495.2mV	73.00V	9.24uA
53	501.6mV	75.35V	10.65uA
54	496.9mV	74.36V	12.55uA
55	492.9mV	72.22V	9.89uA
56	488.2mV	74.68V	9.72uA
57	496.8mV	70.53V	9.86uA
58	490.3mV	76.31V	11.90uA
59	483.9mV	75.50V	8.73uA
60	485.8mV	68.26V	8.47uA
61	500.7mV	75.12V	9.60uA
62	487.1mV	73.04V	10.35uA

SeCoS Corporation

Electrical Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 25℃
Test Date: 2020.12.28
Test Standard : Specifications
Operator: Leo Hsia

Test Result: PASS

No	VF	VB	IR
63	488.5mV	72.50V	10.19uA
64	487.9mV	69.93V	10.95uA
65	486.9mV	72.84V	8.63uA
66	502.3mV	74.17V	13.28uA
67	501.0mV	74.10V	8.32uA
68	499.4mV	69.67V	9.04uA
69	499.5mV	73.70V	11.88uA
70	487.2mV	76.29V	12.65uA
71	495.7mV	69.22V	9.95uA
72	493.0mV	73.54V	8.16uA
73	483.8mV	74.02V	9.60uA
74	502.5mV	75.61V	11.48uA
75	491.9mV	71.83V	11.77uA
76	487.4mV	72.67V	11.43uA
77	488.9mV	70.28V	12.35uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

High Temperature Reverse Bias Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 100 ± 5℃, 80%VR, T = 1000 hrs
Test Date: 2020.12.29 ~ 2021.02.09
Test Standard : JESD22 STANDARD Method-A108
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
1	483.8mV	71.27V	9.87uA	494.9mV	69.77V	8.29uA
2	494.8mV	74.76V	9.73uA	484.2mV	74.81V	11.96uA
3	502.8mV	68.61V	9.27uA	499.0mV	74.81V	9.48uA
4	502.2mV	74.89V	12.20uA	501.2mV	73.52V	11.63uA
5	490.4mV	72.05V	9.48uA	499.6mV	69.72V	11.93uA
6	495.9mV	73.70V	8.58uA	489.7mV	69.98V	9.12uA
7	502.1mV	75.67V	8.09uA	495.5mV	71.79V	9.71uA
8	489.3mV	73.79V	12.60uA	493.8mV	68.92V	8.31uA
9	486.0mV	73.25V	9.29uA	491.8mV	75.50V	9.46uA
10	485.5mV	70.74V	8.64uA	495.8mV	71.20V	10.19uA
11	483.7mV	71.03V	10.20uA	483.9mV	70.22V	9.47uA
12	501.4mV	68.69V	8.56uA	493.3mV	74.96V	11.93uA
13	492.5mV	73.14V	10.47uA	489.2mV	73.24V	8.18uA
14	493.4mV	72.07V	10.17uA	502.4mV	69.82V	11.90uA
15	485.0mV	72.74V	8.61uA	497.8mV	72.50V	11.22uA
16	498.1mV	76.01V	11.50uA	483.8mV	70.96V	9.92uA
17	490.6mV	75.48V	8.56uA	487.8mV	73.54V	11.50uA
18	493.7mV	68.34V	10.72uA	498.4mV	72.78V	13.15uA
19	487.9mV	75.87V	9.41uA	486.9mV	69.62V	12.77uA
20	485.4mV	69.44V	11.96uA	490.2mV	69.06V	9.03uA
21	501.8mV	71.01V	9.72uA	498.9mV	68.84V	11.99uA
22	484.4mV	74.41V	13.22uA	501.7mV	71.25V	9.90uA
23	501.9mV	70.09V	8.91uA	488.1mV	73.61V	8.66uA
24	501.3mV	69.06V	12.09uA	492.0mV	68.77V	12.78uA
25	496.4mV	72.16V	13.66uA	498.3mV	72.39V	9.33uA
26	492.9mV	72.46V	10.58uA	486.6mV	73.59V	10.84uA
27	497.1mV	70.25V	9.48uA	490.4mV	73.08V	9.25uA
28	492.0mV	69.61V	10.10uA	495.8mV	72.85V	12.51uA
29	502.1mV	69.17V	9.19uA	483.4mV	76.03V	10.93uA
30	490.2mV	69.75V	10.88uA	485.8mV	75.74V	8.01uA

SeCoS Corporation

High Temperature Reverse Bias Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 100 ± 5℃, 80%VR, T = 1000 hrs
Test Date: 2020.12.29 ~ 2021.02.09
Test Standard : JESD22 STANDARD Method-A108
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
31	483.6mV	75.50V	13.14uA	497.7mV	68.77V	9.08uA
32	483.8mV	73.59V	10.70uA	497.7mV	74.97V	11.09uA
33	496.6mV	73.91V	9.37uA	497.9mV	72.93V	9.24uA
34	492.6mV	69.53V	9.70uA	492.7mV	71.36V	8.95uA
35	492.1mV	70.13V	12.00uA	492.8mV	73.78V	13.85uA
36	501.2mV	69.44V	8.02uA	503.0mV	75.69V	12.19uA
37	493.0mV	73.47V	11.00uA	494.3mV	70.36V	10.72uA
38	495.9mV	68.26V	13.71uA	491.3mV	74.39V	12.59uA
39	488.9mV	72.14V	9.33uA	485.3mV	68.79V	11.18uA
40	501.5mV	72.98V	12.06uA	489.6mV	73.48V	13.75uA
41	500.9mV	75.69V	12.29uA	502.1mV	69.09V	9.35uA
42	483.6mV	75.64V	12.69uA	489.9mV	75.33V	9.23uA
43	495.0mV	75.13V	11.93uA	499.5mV	70.51V	8.54uA
44	485.8mV	72.91V	13.62uA	490.8mV	70.42V	12.55uA
45	487.7mV	74.05V	13.53uA	494.3mV	74.16V	11.69uA
46	497.5mV	75.59V	8.49uA	492.1mV	70.88V	10.50uA
47	491.7mV	70.93V	11.03uA	486.4mV	72.12V	8.79uA
48	502.0mV	71.49V	9.91uA	486.6mV	73.33V	10.34uA
49	487.7mV	70.21V	11.44uA	486.6mV	70.78V	13.50uA
50	495.5mV	70.05V	11.87uA	483.2mV	76.26V	9.55uA
51	486.6mV	68.95V	10.44uA	502.6mV	75.50V	9.39uA
52	485.8mV	70.59V	10.32uA	485.3mV	73.55V	11.53uA
53	484.2mV	74.82V	9.29uA	483.4mV	76.18V	12.78uA
54	498.2mV	72.30V	9.63uA	490.2mV	69.19V	10.47uA
55	498.5mV	74.59V	12.20uA	483.6mV	69.21V	12.94uA
56	494.0mV	69.67V	11.18uA	486.8mV	74.94V	9.11uA
57	499.4mV	68.38V	8.10uA	491.1mV	70.29V	10.04uA
58	489.9mV	75.08V	10.65uA	492.0mV	70.15V	11.91uA
59	501.3mV	69.26V	13.86uA	495.7mV	75.04V	12.57uA
60	496.0mV	76.02V	10.54uA	487.8mV	72.93V	10.50uA

SeCoS Corporation

High Temperature Reverse Bias Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 100 ± 5℃, 80%VR, T = 1000 hrs
Test Date: 2020.12.29 ~ 2021.02.09
Test Standard : JESD22 STANDARD Method-A108
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
61	503.0mV	76.07V	8.82uA	499.9mV	69.10V	9.41uA
62	500.5mV	70.42V	12.89uA	498.0mV	69.38V	11.51uA
63	500.5mV	73.44V	13.83uA	500.0mV	72.61V	10.66uA
64	502.0mV	72.71V	8.60uA	499.2mV	74.10V	11.08uA
65	486.6mV	71.15V	13.16uA	502.2mV	75.39V	11.88uA
66	502.3mV	68.29V	12.85uA	493.3mV	73.54V	12.28uA
67	489.7mV	73.76V	8.23uA	502.7mV	73.17V	10.50uA
68	495.4mV	70.60V	8.30uA	485.4mV	70.47V	13.20uA
69	491.1mV	75.16V	11.71uA	484.2mV	73.21V	8.34uA
70	487.1mV	73.76V	8.24uA	496.0mV	76.09V	13.33uA
71	492.5mV	69.67V	11.84uA	499.0mV	68.79V	13.55uA
72	490.1mV	68.47V	13.78uA	497.2mV	70.52V	10.52uA
73	501.6mV	72.49V	8.29uA	489.9mV	75.23V	9.64uA
74	497.2mV	76.12V	10.72uA	488.3mV	73.35V	11.98uA
75	484.1mV	73.05V	13.13uA	494.9mV	73.59V	11.07uA
76	493.0mV	73.80V	9.13uA	494.3mV	73.76V	8.47uA
77	490.7mV	71.41V	12.18uA	502.1mV	68.47V	13.61uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

High Temperature Storage Life Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 150℃, 1000Hrs
Test Date: 2021.01.05 ~ 2021.02.17
Test Standard : JESD22 STANDARD Method-A103
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
1	498.9mV	70.73V	8.83uA	502.3mV	69.69V	13.45uA
2	498.2mV	70.40V	8.86uA	497.6mV	75.11V	11.31uA
3	492.3mV	75.58V	8.40uA	497.5mV	73.40V	12.67uA
4	501.2mV	72.36V	12.20uA	499.8mV	72.68V	8.53uA
5	496.9mV	72.90V	11.14uA	492.8mV	72.48V	12.91uA
6	487.9mV	70.59V	10.37uA	491.0mV	74.59V	9.72uA
7	500.2mV	72.23V	13.73uA	491.1mV	75.73V	11.98uA
8	500.1mV	70.77V	12.46uA	490.1mV	69.02V	12.96uA
9	494.1mV	74.58V	9.67uA	499.4mV	75.04V	10.67uA
10	502.2mV	71.47V	12.07uA	483.8mV	70.42V	10.20uA
11	494.6mV	68.91V	11.07uA	483.5mV	75.98V	12.42uA
12	487.8mV	70.53V	10.94uA	489.4mV	73.58V	12.86uA
13	483.5mV	75.22V	12.64uA	486.1mV	72.13V	12.00uA
14	489.7mV	71.72V	8.85uA	488.3mV	69.72V	10.38uA
15	484.0mV	73.39V	10.10uA	497.0mV	69.21V	9.57uA
16	490.8mV	75.33V	13.68uA	485.4mV	74.32V	10.45uA
17	489.2mV	74.36V	8.84uA	490.0mV	70.60V	9.79uA
18	500.5mV	73.40V	12.37uA	495.1mV	69.35V	13.33uA
19	494.0mV	75.23V	10.64uA	502.0mV	75.41V	12.59uA
20	492.8mV	72.32V	13.39uA	493.5mV	73.40V	12.33uA
21	496.1mV	76.14V	8.79uA	491.8mV	69.15V	11.89uA
22	501.2mV	69.08V	13.70uA	500.4mV	70.07V	9.95uA
23	499.4mV	70.69V	8.16uA	496.3mV	71.65V	13.34uA
24	483.4mV	69.55V	8.28uA	498.9mV	76.30V	13.27uA
25	499.7mV	70.22V	12.33uA	485.2mV	74.77V	9.38uA
26	490.3mV	68.64V	11.51uA	489.0mV	73.67V	9.42uA
27	499.7mV	73.57V	8.99uA	498.0mV	76.32V	11.28uA
28	500.9mV	76.36V	8.58uA	487.4mV	73.46V	12.93uA
29	483.8mV	73.13V	11.08uA	486.7mV	74.64V	8.43uA
30	483.2mV	75.85V	8.13uA	488.0mV	75.32V	11.80uA

SeCoS Corporation

High Temperature Storage Life Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 150℃, 1000Hrs
Test Date: 2021.01.05 ~ 2021.02.17
Test Standard : JESD22 STANDARD Method-A103
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
31	490.2mV	74.32V	13.18uA	493.7mV	74.69V	13.44uA
32	492.7mV	73.18V	11.35uA	498.0mV	72.75V	11.15uA
33	488.7mV	73.64V	9.47uA	494.9mV	74.79V	12.31uA
34	486.2mV	75.75V	10.82uA	498.2mV	76.12V	12.69uA
35	500.7mV	73.13V	12.69uA	501.0mV	72.23V	11.02uA
36	501.7mV	69.87V	12.59uA	500.0mV	75.16V	11.52uA
37	494.9mV	76.05V	9.50uA	496.6mV	72.41V	13.69uA
38	494.6mV	75.50V	13.30uA	492.9mV	72.26V	8.21uA
39	491.7mV	73.45V	9.86uA	497.3mV	73.65V	12.71uA
40	492.9mV	68.32V	8.71uA	493.3mV	71.67V	13.15uA
41	489.3mV	70.56V	8.87uA	496.7mV	76.14V	8.11uA
42	483.1mV	68.59V	13.64uA	494.7mV	75.77V	12.01uA
43	495.0mV	71.28V	10.76uA	498.1mV	75.46V	8.85uA
44	497.7mV	70.95V	12.20uA	484.0mV	71.60V	13.50uA
45	497.7mV	74.70V	9.13uA	492.1mV	76.21V	8.65uA
46	483.8mV	73.44V	9.28uA	500.8mV	68.28V	8.81uA
47	493.9mV	71.79V	10.94uA	491.7mV	76.21V	11.29uA
48	489.2mV	68.23V	12.74uA	492.2mV	70.95V	10.20uA
49	486.4mV	74.41V	8.80uA	499.7mV	73.41V	9.04uA
50	488.4mV	75.21V	8.22uA	496.8mV	74.70V	9.73uA
51	488.5mV	74.80V	11.50uA	501.4mV	72.46V	9.48uA
52	499.0mV	68.23V	13.88uA	495.6mV	68.31V	12.37uA
53	497.3mV	72.51V	12.13uA	502.7mV	72.45V	11.66uA
54	484.4mV	73.78V	12.08uA	489.0mV	75.29V	12.01uA
55	487.6mV	68.40V	9.81uA	490.6mV	70.04V	10.22uA
56	489.7mV	75.09V	12.67uA	497.5mV	72.65V	12.11uA
57	493.0mV	70.58V	12.06uA	493.0mV	75.83V	9.09uA
58	488.7mV	73.58V	10.75uA	483.0mV	75.43V	11.01uA
59	489.1mV	74.90V	11.40uA	491.6mV	68.71V	8.92uA
60	485.2mV	71.65V	11.75uA	493.0mV	69.76V	11.08uA

SeCoS Corporation

High Temperature Storage Life Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 150℃, 1000Hrs
Test Date: 2021.01.05 ~ 2021.02.17
Test Standard : JESD22 STANDARD Method-A103
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
61	502.6mV	68.98V	10.36uA	502.6mV	69.00V	9.57uA
62	489.3mV	70.79V	13.49uA	493.7mV	70.72V	8.32uA
63	493.0mV	76.18V	10.31uA	498.1mV	75.91V	8.19uA
64	489.0mV	73.65V	8.95uA	502.8mV	68.44V	10.84uA
65	484.6mV	71.78V	8.94uA	499.9mV	71.14V	10.10uA
66	502.1mV	72.48V	12.63uA	499.8mV	73.50V	9.86uA
67	498.2mV	71.53V	10.76uA	501.0mV	73.94V	8.18uA
68	483.7mV	74.31V	12.63uA	492.3mV	73.55V	13.55uA
69	497.3mV	73.48V	10.47uA	498.4mV	69.81V	9.88uA
70	486.0mV	70.90V	9.16uA	502.7mV	74.69V	8.49uA
71	489.4mV	68.69V	8.87uA	488.1mV	74.62V	12.27uA
72	490.8mV	68.77V	11.70uA	494.6mV	75.40V	9.19uA
73	486.1mV	73.93V	13.70uA	500.0mV	75.77V	10.04uA
74	485.6mV	74.81V	9.72uA	483.2mV	70.70V	12.49uA
75	497.0mV	71.26V	8.36uA	487.3mV	74.24V	12.81uA
76	488.8mV	68.64V	9.27uA	493.4mV	75.68V	13.42uA
77	491.4mV	73.12V	12.29uA	486.6mV	69.83V	10.89uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

Pressure Cooker Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 121℃, 100%RH, 29.7PSIG, 168Hrs
Test Date: 2020.12.28 ~ 2021.01.04
Test Standard : JESD22 STANDARD Method-A102
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
1	492.7mV	68.77V	11.25uA	494.6mV	72.14V	10.72uA
2	497.2mV	76.26V	11.33uA	501.6mV	69.32V	10.00uA
3	498.4mV	70.03V	8.57uA	499.8mV	75.07V	10.97uA
4	494.4mV	75.01V	12.15uA	486.6mV	69.58V	13.37uA
5	496.0mV	69.22V	13.28uA	490.6mV	71.11V	12.18uA
6	489.4mV	70.87V	13.03uA	501.1mV	73.31V	8.46uA
7	499.7mV	75.31V	11.44uA	486.6mV	70.78V	11.07uA
8	496.7mV	76.28V	13.71uA	498.8mV	68.82V	11.47uA
9	502.6mV	75.79V	8.82uA	491.9mV	72.84V	9.56uA
10	490.4mV	71.08V	9.76uA	495.9mV	70.51V	8.92uA
11	497.1mV	72.08V	8.02uA	485.4mV	72.82V	13.25uA
12	484.8mV	72.01V	9.51uA	498.7mV	71.57V	11.69uA
13	493.9mV	69.61V	12.54uA	498.1mV	71.74V	8.77uA
14	493.3mV	72.61V	11.23uA	492.5mV	69.47V	9.76uA
15	488.6mV	74.20V	8.41uA	500.0mV	75.36V	12.10uA
16	488.5mV	76.04V	13.89uA	502.3mV	73.04V	10.87uA
17	491.9mV	69.04V	9.08uA	501.1mV	72.41V	11.61uA
18	494.6mV	72.57V	13.52uA	501.9mV	73.36V	11.21uA
19	496.9mV	71.51V	11.33uA	493.8mV	73.86V	11.40uA
20	494.4mV	69.34V	13.59uA	488.3mV	75.78V	11.36uA
21	483.7mV	70.90V	11.21uA	498.1mV	75.64V	10.87uA
22	500.0mV	73.95V	12.39uA	485.7mV	73.72V	11.60uA
23	496.3mV	74.31V	9.33uA	499.2mV	75.36V	8.65uA
24	500.5mV	69.64V	8.59uA	498.3mV	74.30V	13.86uA
25	490.9mV	72.85V	9.09uA	483.7mV	75.47V	12.77uA
26	486.8mV	74.32V	10.58uA	496.4mV	73.49V	8.49uA
27	501.5mV	71.88V	10.20uA	499.1mV	73.58V	10.92uA
28	483.7mV	68.95V	13.22uA	495.3mV	75.65V	12.61uA
29	485.9mV	70.95V	12.68uA	501.6mV	70.10V	9.23uA
30	488.8mV	71.34V	11.06uA	499.5mV	75.05V	11.79uA

SeCoS Corporation

Pressure Cooker Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 121℃, 100%RH, 29.7PSIG, 168Hrs
Test Date: 2020.12.28 ~ 2021.01.04
Test Standard : JESD22 STANDARD Method-A102
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
31	490.2mV	72.90V	8.11uA	490.0mV	74.29V	8.20uA
32	489.4mV	68.80V	10.06uA	502.6mV	69.22V	11.57uA
33	493.5mV	74.55V	9.58uA	486.8mV	69.54V	13.22uA
34	492.6mV	69.52V	11.08uA	483.0mV	72.88V	10.81uA
35	502.2mV	72.85V	13.91uA	499.7mV	72.41V	9.51uA
36	496.4mV	75.86V	9.12uA	496.5mV	75.68V	9.13uA
37	487.1mV	69.07V	12.31uA	487.6mV	69.88V	10.62uA
38	499.4mV	76.18V	12.95uA	483.3mV	75.06V	13.44uA
39	502.5mV	73.27V	9.29uA	488.7mV	75.07V	12.39uA
40	496.5mV	68.75V	11.40uA	499.8mV	72.94V	13.04uA
41	502.9mV	72.54V	8.59uA	485.3mV	71.11V	12.22uA
42	491.2mV	72.31V	9.08uA	501.3mV	70.90V	9.49uA
43	489.6mV	73.76V	11.55uA	489.2mV	72.21V	8.25uA
44	491.4mV	72.65V	10.30uA	497.1mV	74.95V	12.22uA
45	500.4mV	69.69V	8.54uA	489.3mV	75.69V	12.79uA
46	494.5mV	75.26V	10.79uA	492.6mV	73.74V	10.32uA
47	494.1mV	69.94V	12.30uA	493.6mV	71.79V	13.14uA
48	489.5mV	68.75V	9.22uA	493.9mV	74.09V	13.57uA
49	487.6mV	74.21V	12.34uA	487.4mV	72.66V	11.17uA
50	496.7mV	71.09V	11.24uA	496.4mV	69.84V	8.16uA
51	488.8mV	69.81V	9.98uA	483.8mV	74.75V	9.16uA
52	493.3mV	75.57V	9.10uA	498.6mV	74.97V	10.29uA
53	494.6mV	73.29V	8.88uA	484.9mV	69.61V	10.44uA
54	500.6mV	75.16V	10.34uA	501.0mV	68.39V	13.18uA
55	496.8mV	75.73V	12.51uA	500.0mV	71.29V	9.11uA
56	500.3mV	72.72V	10.69uA	492.1mV	70.33V	11.97uA
57	494.5mV	72.15V	13.57uA	494.7mV	72.79V	13.81uA
58	486.9mV	75.64V	10.11uA	489.9mV	73.95V	8.98uA
59	501.9mV	70.48V	8.95uA	499.9mV	71.12V	9.37uA
60	493.1mV	76.13V	10.92uA	495.8mV	70.75V	11.27uA

SeCoS Corporation

Pressure Cooker Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 121℃, 100%RH, 29.7PSIG, 168Hrs
Test Date: 2020.12.28 ~ 2021.01.04
Test Standard : JESD22 STANDARD Method-A102
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
61	491.1mV	73.34V	8.76uA	499.2mV	70.22V	12.47uA
62	486.7mV	75.96V	12.30uA	483.7mV	70.29V	13.23uA
63	490.6mV	76.03V	11.72uA	495.0mV	75.87V	11.62uA
64	486.0mV	74.37V	10.34uA	487.7mV	73.60V	10.90uA
65	502.2mV	70.85V	8.04uA	493.5mV	70.87V	11.79uA
66	484.0mV	72.98V	12.88uA	502.8mV	70.45V	8.82uA
67	500.6mV	73.95V	12.40uA	497.2mV	74.05V	10.30uA
68	495.4mV	76.30V	13.81uA	493.2mV	68.74V	9.11uA
69	493.2mV	75.44V	12.20uA	491.1mV	70.52V	10.26uA
70	496.1mV	76.23V	9.71uA	491.0mV	68.67V	13.38uA
71	495.8mV	73.20V	9.18uA	491.0mV	71.84V	9.82uA
72	502.8mV	76.23V	11.85uA	492.4mV	69.86V	13.52uA
73	485.3mV	75.78V	8.88uA	494.2mV	73.93V	9.57uA
74	500.4mV	75.04V	10.41uA	491.4mV	72.87V	9.04uA
75	493.5mV	68.68V	11.59uA	486.1mV	72.71V	11.87uA
76	492.4mV	68.77V	9.53uA	485.4mV	68.73V	8.91uA
77	499.6mV	72.08V	13.38uA	501.6mV	74.97V	10.90uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

Temperature Cycle Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: -55℃/30min, 150℃/30min, for1000 Cycle
Test Date: 2020.12.31 ~ 2021.02.22
Test Standard : JESD22 STANDARD Method-A104
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
1	497.3mV	71.73V	11.69uA	493.6mV	69.88V	9.67uA
2	500.0mV	73.64V	10.72uA	498.9mV	68.72V	9.24uA
3	496.1mV	72.25V	11.90uA	489.6mV	70.50V	9.29uA
4	490.3mV	74.43V	8.81uA	497.0mV	70.60V	10.11uA
5	498.3mV	74.12V	13.13uA	501.7mV	75.02V	11.88uA
6	499.8mV	75.44V	13.57uA	492.3mV	75.19V	13.03uA
7	501.4mV	71.13V	12.92uA	492.6mV	71.71V	8.74uA
8	494.8mV	73.82V	12.76uA	491.7mV	74.06V	12.51uA
9	483.8mV	75.34V	9.20uA	501.4mV	71.14V	13.45uA
10	497.2mV	74.19V	9.79uA	502.3mV	73.95V	9.14uA
11	484.0mV	69.17V	12.69uA	499.0mV	74.25V	12.49uA
12	484.2mV	68.76V	10.53uA	484.2mV	70.61V	13.88uA
13	498.4mV	72.08V	8.26uA	498.0mV	69.06V	10.33uA
14	496.4mV	73.57V	13.25uA	490.3mV	76.22V	8.11uA
15	484.0mV	73.79V	10.46uA	502.0mV	70.40V	11.87uA
16	489.1mV	72.77V	13.89uA	498.5mV	69.54V	13.85uA
17	495.7mV	72.10V	11.89uA	484.3mV	75.51V	13.58uA
18	500.3mV	75.05V	9.94uA	493.7mV	72.21V	9.07uA
19	500.0mV	68.40V	12.60uA	486.9mV	72.23V	9.15uA
20	488.2mV	68.50V	11.29uA	486.9mV	68.58V	10.60uA
21	486.5mV	73.94V	12.27uA	488.3mV	71.32V	10.66uA
22	498.8mV	70.77V	11.30uA	494.6mV	72.49V	9.92uA
23	500.8mV	68.80V	10.74uA	498.1mV	72.42V	12.39uA
24	500.2mV	73.29V	8.24uA	491.1mV	75.89V	11.16uA
25	497.3mV	74.15V	8.28uA	493.8mV	68.41V	8.24uA
26	492.8mV	75.92V	9.41uA	494.2mV	73.17V	10.84uA
27	487.8mV	75.15V	10.01uA	490.6mV	72.74V	12.53uA
28	485.1mV	73.43V	13.48uA	492.4mV	74.85V	12.53uA
29	489.9mV	68.27V	9.98uA	500.8mV	70.21V	10.75uA
30	493.8mV	70.33V	8.22uA	499.6mV	68.37V	13.45uA

SeCoS Corporation

Temperature Cycle Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: -55℃/30min, 150℃/30min, for1000 Cycle
Test Date: 2020.12.31 ~ 2021.02.22
Test Standard : JESD22 STANDARD Method-A104
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
31	484.2mV	75.42V	12.25uA	501.4mV	75.68V	10.56uA
32	491.6mV	69.05V	8.40uA	490.9mV	68.22V	11.17uA
33	485.8mV	70.85V	11.87uA	496.5mV	72.28V	9.49uA
34	486.4mV	71.22V	9.78uA	500.0mV	70.46V	11.90uA
35	484.3mV	74.31V	13.25uA	491.9mV	74.65V	11.11uA
36	490.7mV	75.11V	9.43uA	499.0mV	74.86V	11.60uA
37	488.2mV	71.06V	13.87uA	488.3mV	73.77V	10.90uA
38	502.4mV	72.78V	11.88uA	491.9mV	69.13V	9.82uA
39	499.1mV	68.88V	9.34uA	489.8mV	73.95V	9.74uA
40	493.7mV	72.35V	13.12uA	488.1mV	69.07V	9.25uA
41	499.9mV	68.47V	11.51uA	487.3mV	73.12V	9.13uA
42	492.7mV	69.38V	13.34uA	501.1mV	74.22V	12.05uA
43	488.1mV	69.75V	13.82uA	501.1mV	69.23V	12.38uA
44	502.5mV	69.79V	10.30uA	490.9mV	75.45V	13.74uA
45	502.1mV	71.19V	13.64uA	488.4mV	76.03V	11.25uA
46	491.3mV	72.22V	13.71uA	487.9mV	72.66V	11.32uA
47	494.9mV	68.94V	8.44uA	499.6mV	68.84V	10.43uA
48	502.0mV	72.77V	13.71uA	493.6mV	70.09V	9.52uA
49	502.1mV	70.77V	11.31uA	487.4mV	76.23V	9.59uA
50	486.5mV	72.43V	12.40uA	492.1mV	68.46V	9.88uA
51	483.2mV	72.21V	10.09uA	495.7mV	69.06V	11.22uA
52	501.1mV	76.23V	13.55uA	491.1mV	73.52V	11.01uA
53	486.2mV	75.44V	13.42uA	487.7mV	72.09V	10.88uA
54	493.8mV	72.65V	8.79uA	491.3mV	70.49V	10.41uA
55	495.7mV	72.97V	9.86uA	502.4mV	75.53V	12.60uA
56	486.8mV	74.91V	13.55uA	487.1mV	74.52V	11.43uA
57	484.2mV	76.26V	13.27uA	484.6mV	72.20V	12.52uA
58	494.5mV	74.68V	11.89uA	492.2mV	72.56V	11.72uA
59	490.7mV	74.07V	13.54uA	496.2mV	74.36V	10.82uA
60	499.4mV	68.73V	11.98uA	502.8mV	69.84V	13.22uA

SeCoS Corporation

Temperature Cycle Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: -55℃/30min, 150℃/30min, for1000 Cycle
Test Date: 2020.12.31 ~ 2021.02.22
Test Standard : JESD22 STANDARD Method-A104
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
61	492.9mV	72.18V	9.38uA	501.5mV	71.16V	11.02uA
62	493.9mV	76.16V	8.03uA	494.5mV	75.76V	8.49uA
63	497.9mV	75.42V	9.49uA	499.6mV	73.50V	8.26uA
64	492.8mV	74.93V	13.06uA	496.2mV	74.25V	11.60uA
65	500.2mV	75.09V	8.87uA	489.7mV	74.00V	10.11uA
66	487.0mV	69.48V	8.88uA	489.5mV	72.32V	8.37uA
67	493.3mV	70.83V	10.96uA	498.2mV	68.34V	10.58uA
68	502.4mV	70.16V	10.09uA	493.4mV	70.53V	13.53uA
69	492.1mV	75.02V	12.52uA	487.1mV	73.54V	8.29uA
70	502.6mV	72.11V	9.70uA	488.4mV	72.00V	13.18uA
71	485.2mV	72.73V	10.70uA	499.9mV	76.05V	10.38uA
72	490.2mV	73.20V	10.07uA	498.0mV	71.57V	8.76uA
73	488.0mV	70.25V	8.26uA	499.1mV	70.96V	12.39uA
74	501.8mV	69.11V	12.93uA	490.2mV	75.53V	12.34uA
75	484.8mV	68.60V	11.58uA	484.8mV	70.77V	13.04uA
76	493.5mV	74.71V	11.53uA	492.9mV	70.12V	10.19uA
77	489.7mV	68.98V	11.10uA	490.8mV	68.40V	9.65uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

High Temperature High Humidity Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 85±2℃, 85±5%RH, 1000Hrs
Test Date: 2021.01.05 ~ 2021.02.17
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
1	486.8mV	71.05V	8.85uA	486.8mV	75.70V	11.81uA
2	493.9mV	69.63V	13.72uA	491.2mV	70.59V	9.80uA
3	500.8mV	69.66V	13.45uA	495.6mV	75.91V	9.64uA
4	501.5mV	75.64V	13.69uA	495.7mV	71.95V	10.93uA
5	495.6mV	71.59V	13.71uA	491.9mV	74.17V	8.55uA
6	483.9mV	75.88V	11.14uA	488.5mV	74.58V	12.31uA
7	490.7mV	69.64V	12.51uA	497.2mV	70.23V	8.47uA
8	492.5mV	73.96V	13.04uA	492.4mV	70.60V	8.11uA
9	500.6mV	73.97V	13.37uA	495.1mV	70.80V	13.29uA
10	485.2mV	68.69V	9.67uA	490.7mV	75.20V	10.31uA
11	490.4mV	74.81V	12.43uA	491.8mV	70.26V	12.71uA
12	497.3mV	70.17V	9.16uA	491.1mV	72.88V	10.51uA
13	486.5mV	74.52V	8.28uA	486.1mV	74.94V	8.74uA
14	497.1mV	72.43V	10.72uA	498.7mV	74.77V	9.58uA
15	490.1mV	68.91V	12.93uA	485.4mV	72.27V	13.82uA
16	492.5mV	76.36V	8.12uA	502.6mV	68.91V	8.72uA
17	500.6mV	68.53V	11.54uA	485.9mV	72.03V	8.82uA
18	484.2mV	69.84V	13.81uA	492.6mV	70.84V	11.12uA
19	503.0mV	76.36V	10.25uA	502.1mV	68.25V	9.58uA
20	484.3mV	68.69V	10.78uA	501.7mV	68.64V	10.96uA
21	495.3mV	72.60V	10.45uA	501.6mV	74.85V	13.46uA
22	496.1mV	73.86V	13.30uA	493.8mV	68.43V	10.25uA
23	487.6mV	75.64V	12.50uA	500.5mV	71.57V	11.22uA
24	491.9mV	75.88V	13.41uA	488.9mV	71.48V	13.71uA
25	489.7mV	72.52V	10.89uA	485.5mV	74.56V	9.20uA
26	487.3mV	72.06V	13.09uA	484.7mV	71.56V	9.00uA
27	501.2mV	73.49V	12.40uA	484.1mV	69.85V	12.01uA
28	499.3mV	69.78V	12.94uA	496.3mV	72.95V	8.50uA
29	488.1mV	70.13V	9.46uA	500.3mV	68.92V	9.08uA
30	492.3mV	75.35V	11.11uA	499.7mV	73.10V	8.02uA

SeCoS Corporation

High Temperature High Humidity Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 85±2℃, 85±5%RH, 1000Hrs
Test Date: 2021.01.05 ~ 2021.02.17
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
31	496.3mV	68.59V	8.80uA	502.9mV	74.87V	13.34uA
32	486.3mV	75.01V	8.51uA	488.4mV	68.66V	10.01uA
33	501.4mV	70.94V	12.16uA	493.6mV	68.64V	13.35uA
34	486.5mV	68.57V	10.95uA	484.2mV	75.46V	8.05uA
35	492.7mV	70.17V	13.91uA	494.3mV	70.37V	10.42uA
36	494.1mV	74.80V	8.81uA	489.5mV	70.96V	12.76uA
37	488.1mV	74.40V	8.13uA	497.5mV	73.51V	12.77uA
38	485.7mV	73.91V	13.57uA	495.5mV	71.84V	9.63uA
39	498.0mV	73.80V	8.72uA	485.1mV	69.97V	10.17uA
40	497.1mV	69.16V	8.96uA	499.0mV	71.51V	10.19uA
41	491.9mV	68.76V	13.68uA	489.4mV	75.78V	12.94uA
42	500.6mV	70.32V	9.00uA	501.6mV	68.98V	8.78uA
43	485.1mV	73.50V	8.03uA	495.5mV	73.57V	12.63uA
44	495.1mV	75.71V	8.52uA	499.7mV	69.86V	11.55uA
45	498.6mV	68.57V	9.41uA	484.1mV	70.13V	11.46uA
46	486.2mV	68.84V	12.99uA	497.9mV	73.28V	8.54uA
47	498.9mV	75.61V	10.98uA	488.7mV	73.45V	10.95uA
48	488.0mV	75.36V	10.47uA	502.7mV	71.04V	12.77uA
49	488.7mV	68.46V	8.84uA	485.3mV	68.72V	12.77uA
50	490.9mV	74.75V	11.88uA	492.5mV	70.26V	10.71uA
51	490.4mV	68.48V	13.88uA	498.7mV	71.40V	10.68uA
52	492.4mV	73.84V	10.98uA	492.5mV	68.21V	11.48uA
53	491.8mV	68.44V	9.89uA	499.6mV	70.00V	12.12uA
54	495.7mV	69.83V	9.41uA	485.9mV	72.97V	8.43uA
55	500.7mV	76.19V	13.14uA	490.4mV	70.31V	9.15uA
56	495.4mV	70.26V	8.54uA	496.2mV	70.56V	11.73uA
57	499.2mV	71.29V	10.39uA	496.6mV	72.29V	11.75uA
58	483.6mV	69.67V	11.44uA	487.4mV	69.39V	8.38uA
59	487.0mV	68.37V	10.04uA	498.6mV	72.04V	9.78uA
60	483.3mV	70.36V	12.66uA	485.1mV	75.26V	10.56uA

SeCoS Corporation

High Temperature High Humidity Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 85±2℃, 85±5%RH, 1000Hrs
Test Date: 2021.01.05 ~ 2021.02.17
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
61	499.7mV	72.75V	13.45uA	486.7mV	70.58V	12.17uA
62	485.6mV	71.29V	13.03uA	484.0mV	72.44V	10.99uA
63	500.9mV	74.35V	10.48uA	496.6mV	72.33V	10.70uA
64	492.9mV	73.76V	10.77uA	495.4mV	68.80V	12.92uA
65	498.5mV	70.49V	8.01uA	500.7mV	71.58V	11.07uA
66	497.4mV	75.29V	8.36uA	501.2mV	70.93V	8.06uA
67	495.4mV	69.45V	9.72uA	488.0mV	75.19V	12.45uA
68	501.2mV	74.81V	12.64uA	491.2mV	73.87V	11.63uA
69	491.5mV	76.09V	9.14uA	499.7mV	73.64V	10.44uA
70	490.2mV	73.25V	10.50uA	498.7mV	69.34V	10.50uA
71	494.0mV	73.38V	10.61uA	489.1mV	75.15V	8.46uA
72	501.4mV	68.63V	9.97uA	497.1mV	71.60V	10.47uA
73	491.2mV	71.23V	12.62uA	502.1mV	76.02V	13.79uA
74	490.7mV	72.61V	10.05uA	484.9mV	75.55V	8.41uA
75	487.3mV	70.21V	13.63uA	496.3mV	75.92V	12.03uA
76	492.2mV	70.95V	11.28uA	492.6mV	72.94V	12.59uA
77	494.3mV	74.91V	11.24uA	498.8mV	70.33V	9.50uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

High Temper High Humidity Reverse Bies Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 85±2℃, 85±5%RH, 80%VR, 1000Hrs
Test Date: 2021.01.11 ~ 2021.02.23
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
1	490.8mV	73.99V	9.69uA	497.7mV	71.69V	10.66uA
2	491.1mV	72.14V	12.48uA	490.7mV	76.10V	11.52uA
3	489.2mV	73.11V	9.10uA	483.9mV	69.28V	8.93uA
4	499.4mV	74.74V	10.40uA	502.3mV	74.79V	8.89uA
5	495.0mV	72.57V	11.33uA	484.9mV	70.18V	10.09uA
6	501.3mV	73.40V	8.50uA	487.6mV	76.31V	13.81uA
7	499.9mV	74.34V	12.41uA	486.2mV	75.87V	9.30uA
8	500.5mV	74.51V	13.32uA	490.4mV	70.24V	8.24uA
9	494.6mV	74.35V	12.47uA	496.7mV	74.25V	13.51uA
10	496.8mV	70.29V	9.47uA	490.0mV	69.81V	10.69uA
11	501.4mV	69.04V	12.33uA	486.7mV	72.32V	8.66uA
12	494.5mV	71.32V	10.30uA	497.3mV	71.80V	9.68uA
13	495.1mV	74.63V	8.77uA	490.5mV	75.02V	9.81uA
14	496.5mV	76.22V	12.38uA	501.0mV	72.48V	12.05uA
15	495.6mV	75.27V	13.26uA	499.9mV	73.95V	12.03uA
16	491.8mV	68.84V	9.68uA	490.1mV	72.20V	8.14uA
17	488.1mV	69.53V	11.30uA	487.6mV	71.05V	10.34uA
18	487.2mV	70.06V	13.61uA	484.8mV	75.48V	11.34uA
19	483.6mV	72.15V	9.52uA	498.3mV	70.54V	9.86uA
20	502.4mV	68.40V	13.78uA	501.2mV	70.64V	8.14uA
21	501.4mV	74.34V	11.95uA	496.9mV	70.25V	11.80uA
22	492.1mV	73.81V	13.46uA	492.8mV	69.36V	10.56uA
23	494.3mV	69.93V	10.48uA	486.8mV	76.13V	9.71uA
24	491.3mV	69.37V	9.43uA	493.9mV	71.62V	9.65uA
25	492.8mV	73.04V	10.74uA	500.2mV	68.97V	11.79uA
26	491.7mV	68.78V	11.81uA	496.1mV	76.11V	10.83uA
27	487.8mV	69.01V	10.29uA	491.0mV	74.81V	13.12uA
28	486.5mV	76.04V	9.88uA	498.3mV	72.18V	12.35uA
29	490.5mV	68.77V	8.92uA	496.8mV	75.81V	13.21uA
30	496.4mV	71.70V	10.27uA	494.0mV	69.85V	8.12uA

SeCoS Corporation

High Temper High Humidity Reverse Bies Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 85±2℃, 85±5%RH, 80%VR, 1000Hrs
Test Date: 2021.01.11 ~ 2021.02.23
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
31	484.1mV	70.16V	12.36uA	483.5mV	70.08V	9.14uA
32	486.6mV	71.57V	8.86uA	499.5mV	69.02V	13.79uA
33	490.2mV	74.83V	8.45uA	497.6mV	73.35V	11.19uA
34	494.9mV	71.32V	9.80uA	495.2mV	68.67V	9.47uA
35	489.8mV	74.17V	13.61uA	487.5mV	72.55V	10.87uA
36	483.7mV	68.91V	10.11uA	500.2mV	75.17V	11.06uA
37	497.1mV	70.17V	12.04uA	483.5mV	73.14V	12.04uA
38	494.7mV	71.85V	10.85uA	494.4mV	70.61V	13.77uA
39	490.4mV	75.37V	11.59uA	486.0mV	72.93V	9.06uA
40	498.0mV	75.95V	11.14uA	493.1mV	73.02V	13.34uA
41	492.7mV	70.22V	8.82uA	492.7mV	75.86V	11.32uA
42	483.8mV	68.57V	13.91uA	497.5mV	75.24V	8.16uA
43	487.1mV	72.68V	10.80uA	490.6mV	69.55V	9.26uA
44	497.9mV	74.29V	9.48uA	500.0mV	74.95V	10.22uA
45	490.5mV	68.76V	13.29uA	484.4mV	68.37V	9.95uA
46	492.0mV	71.27V	11.27uA	498.7mV	68.72V	9.11uA
47	500.6mV	73.10V	9.74uA	494.8mV	70.72V	12.83uA
48	486.0mV	71.55V	12.89uA	502.2mV	72.79V	10.18uA
49	488.2mV	71.07V	12.23uA	492.1mV	71.88V	11.86uA
50	498.5mV	73.79V	10.02uA	498.8mV	70.00V	11.93uA
51	495.9mV	69.05V	9.39uA	495.2mV	69.97V	9.08uA
52	490.0mV	70.79V	12.99uA	502.3mV	73.92V	8.24uA
53	483.5mV	69.78V	11.45uA	501.4mV	72.20V	13.45uA
54	502.6mV	69.85V	13.16uA	496.8mV	73.04V	9.31uA
55	502.4mV	72.36V	9.15uA	490.3mV	74.61V	11.21uA
56	488.2mV	71.83V	10.37uA	484.5mV	68.88V	12.02uA
57	497.9mV	70.21V	12.03uA	493.2mV	70.58V	9.18uA
58	489.6mV	72.58V	13.22uA	502.4mV	70.55V	13.51uA
59	491.3mV	69.81V	13.71uA	499.9mV	75.38V	13.28uA
60	490.0mV	75.60V	9.18uA	484.3mV	75.81V	11.73uA

SeCoS Corporation

High Temper High Humidity Reverse Bies Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 85±2℃, 85±5%RH, 80%VR, 1000Hrs
Test Date: 2021.01.11 ~ 2021.02.23
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
61	496.1mV	68.96V	10.60uA	500.6mV	69.88V	10.32uA
62	497.2mV	75.11V	11.13uA	486.0mV	76.10V	13.76uA
63	495.6mV	68.37V	10.94uA	494.1mV	75.99V	13.03uA
64	501.9mV	73.68V	9.86uA	490.1mV	73.91V	8.85uA
65	500.8mV	68.76V	12.65uA	495.9mV	71.72V	13.64uA
66	485.7mV	75.13V	10.92uA	494.8mV	74.78V	8.17uA
67	497.0mV	72.06V	8.85uA	488.9mV	69.35V	11.58uA
68	495.8mV	68.40V	13.39uA	485.7mV	71.03V	12.26uA
69	486.7mV	69.51V	12.50uA	502.1mV	69.65V	10.29uA
70	488.4mV	69.42V	9.31uA	492.0mV	69.15V	9.96uA
71	496.2mV	72.01V	13.72uA	501.5mV	68.34V	11.67uA
72	486.6mV	74.95V	13.80uA	500.1mV	69.65V	9.51uA
73	493.2mV	75.98V	13.20uA	483.3mV	71.72V	13.23uA
74	497.7mV	68.88V	8.88uA	488.3mV	68.74V	11.98uA
75	490.2mV	74.55V	9.82uA	484.3mV	69.40V	9.97uA
76	497.6mV	72.69V	9.08uA	496.7mV	68.96V	11.28uA
77	497.8mV	70.59V	8.40uA	488.7mV	76.18V	10.61uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

Solderability Test Data

Report No : T210224-160P
Part No : SCS160P-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<650mV@IF=1A, VB>60V@IR=1mA, IR<80uA@VR=60V
Test Condition: 245℃ ± 5℃, 5Sec
Test Date: 2021.02.24
Test Standard : JESD22 STANDER Method-B102
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
1	501.4mV	73.18V	9.47uA	498.6mV	72.83V	12.19uA
2	501.7mV	68.77V	13.74uA	495.1mV	68.84V	12.72uA
3	498.6mV	72.96V	9.24uA	494.4mV	69.34V	12.52uA
4	489.0mV	72.04V	12.78uA	497.1mV	69.71V	9.26uA
5	490.3mV	69.14V	13.35uA	499.2mV	76.01V	11.49uA
6	490.0mV	76.04V	10.46uA	502.9mV	69.69V	8.18uA
7	489.6mV	70.57V	8.09uA	486.0mV	70.16V	9.64uA
8	486.5mV	69.46V	9.62uA	498.5mV	73.32V	10.41uA
9	494.8mV	71.72V	13.62uA	489.7mV	74.61V	13.63uA
10	501.7mV	75.92V	11.79uA	486.6mV	75.32V	10.04uA

Made By: King Huang

Approval: Peter Yang