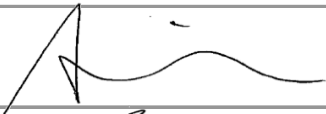




Product/Process Change Notification

PCN#	Effective Date	Issue Date
2020-12-10C-01	2021/3/10	2020/12/10
PCN Classification	Product Category	
Major	SOT-SOD-TO-DIP Lead Frame	
Subject		
Jiangyin Kangqiang Electronics Co., Ltd. will be relocated to its parent company Ningbo Kangqiang Electronics Co., Ltd.		
Affected Product(s)		
As attachment		
Description of Change(s)		
According to the overall planning and development requirements proposed by the supplier, to form a unified, large-scale and intensive production management mode to improve work efficiency and economic benefits; Jiangyin Kangqiang Electronics Co., Ltd. will be relocated to its parent company Ningbo Kangqiang Electronics Co., Ltd.		
Content of Change(s)		
Jiangyin Kangqiang relocated to Ningbo Kangqiang		
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)

SMS318	SMS2002	SMG2305	SMG3215
SMS3415	SMS3009E	SMG2305A	SMG3215B
SMS2310	SMS3024A	SMG2305PE	SMG3400
SMS3400A	SMS3022	SMG2310B	SMG3401
SMS3401A	SMS4002	SMG2313B	SMG3402
SMS2312	SMS3002	SMG2314N	SMG3407
SMS123	SMS2012	SMG2315	SMG4008
SMS3407	SMS3407A	SMG2321	SMG5402
SMS2301	SMS3001	SMG2322	SMG5409
SMS2009E	SMG2007	SMG2328	
SMS1520NE	SMG2301	SMG2343P	
SMS2001	SMG2302	SMG3021	



Reliability Testing Summary Report

Date: 2021/03/09

Document No.: SO21 -03-MS3400A

Test Item	P/N	Test Condition	(LTPD)	Sample Numbers	Allow Fall Numbers	Fall Numbers	Result
HTRB High Temp Reverse Bias	SMS3400A-C	150 ± 5°C , 80% VR, T = 1000hrs		77	0	0	ACC
HTSL High Temperature Storage Life	SMS3400A-C	150°C , T = 1000 hrs		77	0	0	ACC
PCT Pressure Cooker Test	SMS3400A-C	121°C , 29.7PSIG, 168 hrs		77	0	0	ACC
TCT Temperature Cycle Test	SMS3400A-C	-55°C/30min, 150°C/30min, For 1000 Cycle		77	0	0	ACC
THT High Temperature High Humidity Test	SMS3400A-C	85 ± 2°C , RH=85±5%, 1000 hrs		77	0	0	ACC
H3TRB High Temper High Humidity Reverse Bies Test	SMS3400A-C	85 ± 2°C , RH=85±5%, 80% VR, 1000 hrs		77	0	0	ACC
Solderability	SMS3400A-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: 2021.02.11 Testing End Date: 2021.03.09

Tester: King Huang Approval: Peter Yang



Electrical Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250 μ A ; IDSS < 1.0 μ A@VDS=24V

RDS(ON) < 32m Ω @VGS=10V, ID=5.8A

Test Condition: 25 $^{\circ}$ C

Test Date: 2021.01.11

Test Standard : Specifications

Operator: Leo Hsia

Test Result: PASS

No	V(BR)DSS	IDSS	RDS(ON)
1	36.51V	0.0019 μ A	22.60m Ω
2	36.07V	0.0018 μ A	22.78m Ω
3	36.43V	0.0016 μ A	22.62m Ω
4	36.55V	0.0018 μ A	23.13m Ω
5	36.16V	0.0017 μ A	23.08m Ω
6	36.38V	0.0015 μ A	22.66m Ω
7	36.14V	0.0018 μ A	22.56m Ω
8	35.99V	0.0018 μ A	22.97m Ω
9	36.43V	0.0015 μ A	22.87m Ω
10	36.74V	0.0018 μ A	22.94m Ω
11	36.90V	0.0017 μ A	22.63m Ω
12	35.88V	0.0019 μ A	23.11m Ω
18	36.56V	0.0016 μ A	23.17m Ω
18	36.69V	0.0016 μ A	22.77m Ω
15	35.87V	0.0017 μ A	22.97m Ω
16	36.73V	0.0017 μ A	22.59m Ω
17	36.93V	0.0015 μ A	23.00m Ω
18	36.43V	0.0017 μ A	23.07m Ω
19	35.86V	0.0018 μ A	22.58m Ω
20	36.80V	0.0017 μ A	22.95m Ω
21	36.62V	0.0018 μ A	23.06m Ω
22	36.02V	0.0016 μ A	22.49m Ω
23	36.25V	0.0019 μ A	23.17m Ω
24	36.38V	0.0019 μ A	23.19m Ω
25	36.89V	0.0018 μ A	22.96m Ω
26	36.87V	0.0019 μ A	23.14m Ω
27	36.98V	0.0017 μ A	22.77m Ω
28	36.26V	0.0017 μ A	22.59m Ω
29	36.71V	0.0018 μ A	22.85m Ω
30	36.58V	0.0015 μ A	23.10m Ω



Electrical Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250 μ A ; IDSS < 1.0 μ A@VDS=24V

RDS(ON) < 32m Ω @VGS=10V, ID=5.8A

Test Condition: 25 $^{\circ}$ C

Test Date: 2021.01.11

Test Standard : Specifications

Operator: Leo Hsia

Test Result: PASS

No	V(BR)DSS	IDSS	RDS(ON)
31	36.34V	0.0017 μ A	22.61m Ω
32	36.64V	0.0018 μ A	22.64m Ω
33	35.85V	0.0015 μ A	22.62m Ω
34	36.28V	0.0015 μ A	22.62m Ω
35	36.96V	0.0016 μ A	22.57m Ω
36	36.38V	0.0017 μ A	22.77m Ω
37	36.76V	0.0017 μ A	22.65m Ω
38	36.16V	0.0017 μ A	22.59m Ω
39	36.91V	0.0018 μ A	22.78m Ω
40	36.99V	0.0016 μ A	22.74m Ω
41	36.87V	0.0019 μ A	22.66m Ω
42	36.78V	0.0016 μ A	22.97m Ω
43	36.83V	0.0015 μ A	22.46m Ω
44	36.97V	0.0019 μ A	23.12m Ω
45	35.96V	0.0019 μ A	22.57m Ω
46	37.00V	0.0018 μ A	23.06m Ω
47	36.69V	0.0020 μ A	22.46m Ω
48	37.00V	0.0016 μ A	22.43m Ω
49	36.13V	0.0017 μ A	22.77m Ω
50	36.58V	0.0017 μ A	22.95m Ω
51	35.91V	0.0017 μ A	23.17m Ω
52	36.42V	0.0017 μ A	22.62m Ω
53	36.91V	0.0018 μ A	22.44m Ω
54	36.03V	0.0018 μ A	22.82m Ω
55	36.52V	0.0019 μ A	22.85m Ω
56	36.06V	0.0015 μ A	23.04m Ω
57	36.52V	0.0018 μ A	22.91m Ω
58	36.14V	0.0019 μ A	22.94m Ω
59	36.28V	0.0016 μ A	22.81m Ω
60	36.48V	0.0019 μ A	22.45m Ω



Electrical Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250 μ A ; IDSS < 1.0 μ A@VDS=24V

RDS(ON) < 32m Ω @VGS=10V, ID=5.8A

Test Condition: 25 $^{\circ}$ C

Test Date: 2021.01.11

Test Standard : Specifications

Operator: Leo Hsia

Test Result: PASS

No	V(BR)DSS	IDSS	RDS(ON)
61	36.97V	0.0016 μ A	23.19m Ω
62	36.01V	0.0019 μ A	23.01m Ω
63	36.54V	0.0016 μ A	23.05m Ω
64	36.46V	0.0018 μ A	22.72m Ω
65	36.32V	0.0019 μ A	22.47m Ω
66	36.65V	0.0019 μ A	23.16m Ω
67	36.96V	0.0017 μ A	22.92m Ω
68	36.88V	0.0019 μ A	22.81m Ω
69	36.03V	0.0017 μ A	22.87m Ω
70	36.06V	0.0015 μ A	22.78m Ω
71	36.34V	0.0019 μ A	22.80m Ω
72	36.99V	0.0018 μ A	22.59m Ω
73	36.66V	0.0017 μ A	22.98m Ω
74	36.77V	0.0017 μ A	22.56m Ω
75	36.39V	0.0017 μ A	22.49m Ω
76	35.84V	0.0019 μ A	22.79m Ω
77	36.76V	0.0018 μ A	22.89m Ω

Made By: King Huang

Approval: Peter Yang



High Temperature Reverse Bias Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

Test Condition: 150 ± 5°C , 80% VR, T = 1000 hrs

Test Date: 2021.01.12 ~ 2021.02.24

Test Standard : JESD22 STANDARD Method-A108

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
1	35.97V	0.0016uA	22.65mΩ	36.87V	0.0019uA	23.07mΩ
2	35.96V	0.0016uA	22.86mΩ	35.85V	0.0019uA	22.78mΩ
3	36.74V	0.0017uA	22.69mΩ	36.16V	0.0017uA	22.48mΩ
4	36.78V	0.0017uA	22.99mΩ	36.50V	0.0016uA	22.88mΩ
5	36.95V	0.0019uA	22.75mΩ	36.93V	0.0017uA	23.01mΩ
6	36.18V	0.0017uA	23.14mΩ	36.21V	0.0017uA	22.47mΩ
7	36.36V	0.0015uA	22.64mΩ	36.64V	0.0015uA	22.66mΩ
8	35.85V	0.0018uA	23.15mΩ	35.89V	0.0019uA	22.58mΩ
9	36.29V	0.0018uA	22.81mΩ	36.74V	0.0017uA	22.54mΩ
10	36.90V	0.0015uA	22.78mΩ	36.19V	0.0019uA	23.10mΩ
11	36.16V	0.0017uA	23.16mΩ	36.78V	0.0018uA	22.56mΩ
12	36.53V	0.0019uA	22.74mΩ	36.78V	0.0016uA	22.52mΩ
18	36.38V	0.0019uA	23.15mΩ	36.41V	0.0016uA	22.63mΩ
18	36.91V	0.0016uA	23.03mΩ	36.35V	0.0015uA	22.82mΩ
15	35.96V	0.0018uA	22.75mΩ	35.88V	0.0016uA	23.02mΩ
16	36.56V	0.0018uA	22.80mΩ	36.15V	0.0017uA	23.16mΩ
17	36.32V	0.0019uA	22.59mΩ	35.84V	0.0018uA	22.96mΩ
18	36.67V	0.0017uA	22.51mΩ	36.37V	0.0015uA	22.84mΩ
19	36.97V	0.0018uA	22.82mΩ	35.93V	0.0015uA	22.96mΩ
20	36.51V	0.0019uA	22.84mΩ	36.54V	0.0015uA	23.03mΩ
21	36.89V	0.0018uA	22.61mΩ	36.09V	0.0016uA	22.64mΩ
22	36.61V	0.0015uA	22.81mΩ	36.40V	0.0018uA	22.57mΩ
23	36.49V	0.0018uA	22.69mΩ	36.90V	0.0019uA	23.09mΩ
24	36.84V	0.0016uA	23.15mΩ	36.11V	0.0016uA	23.17mΩ
25	36.03V	0.0015uA	23.15mΩ	36.48V	0.0016uA	23.10mΩ
26	35.86V	0.0017uA	22.47mΩ	36.08V	0.0019uA	23.13mΩ
27	36.50V	0.0017uA	22.94mΩ	36.99V	0.0019uA	23.19mΩ
28	36.36V	0.0015uA	22.98mΩ	36.33V	0.0015uA	22.50mΩ
29	36.97V	0.0017uA	22.51mΩ	36.46V	0.0017uA	22.82mΩ



High Temperature Reverse Bias Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

Test Condition: 150 ± 5°C , 80% VR, T = 1000 hrs

Test Date: 2021.01.12 ~ 2021.02.24

Test Standard : JESD22 STANDARD Method-A108

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
30	36.82V	0.0019uA	22.94mΩ	36.18V	0.0020uA	23.16mΩ
31	36.68V	0.0018uA	22.53mΩ	36.06V	0.0015uA	22.74mΩ
32	36.70V	0.0016uA	23.08mΩ	36.51V	0.0016uA	22.58mΩ
33	36.75V	0.0017uA	22.84mΩ	36.99V	0.0019uA	22.53mΩ
34	35.91V	0.0018uA	22.97mΩ	36.18V	0.0017uA	22.83mΩ
35	36.33V	0.0018uA	23.18mΩ	36.50V	0.0015uA	22.67mΩ
36	36.04V	0.0017uA	23.15mΩ	35.89V	0.0016uA	22.48mΩ
37	36.70V	0.0017uA	22.47mΩ	36.79V	0.0020uA	22.97mΩ
38	36.92V	0.0017uA	22.93mΩ	36.12V	0.0017uA	22.46mΩ
39	36.75V	0.0016uA	23.12mΩ	36.34V	0.0015uA	22.66mΩ
40	36.02V	0.0015uA	22.71mΩ	36.59V	0.0016uA	23.04mΩ
41	36.49V	0.0016uA	23.12mΩ	37.02V	0.0019uA	22.91mΩ
42	36.10V	0.0019uA	22.82mΩ	36.35V	0.0016uA	22.79mΩ
43	36.75V	0.0016uA	22.44mΩ	36.81V	0.0017uA	22.79mΩ
44	36.20V	0.0017uA	23.09mΩ	36.28V	0.0016uA	22.58mΩ
45	35.94V	0.0017uA	22.69mΩ	36.10V	0.0017uA	22.68mΩ
46	36.79V	0.0017uA	23.17mΩ	36.68V	0.0018uA	22.62mΩ
47	37.02V	0.0019uA	22.75mΩ	36.45V	0.0019uA	22.86mΩ
48	36.94V	0.0018uA	23.10mΩ	36.99V	0.0016uA	23.04mΩ
49	36.97V	0.0018uA	22.97mΩ	36.98V	0.0015uA	22.86mΩ
50	36.21V	0.0018uA	23.03mΩ	36.04V	0.0018uA	22.66mΩ
51	36.48V	0.0016uA	23.04mΩ	36.77V	0.0017uA	22.67mΩ
52	36.22V	0.0015uA	22.90mΩ	36.50V	0.0019uA	22.48mΩ
53	36.32V	0.0019uA	23.14mΩ	36.48V	0.0018uA	22.76mΩ
54	36.61V	0.0019uA	22.95mΩ	36.44V	0.0016uA	22.96mΩ
55	36.73V	0.0016uA	23.01mΩ	37.01V	0.0019uA	23.16mΩ
56	36.26V	0.0018uA	22.95mΩ	36.27V	0.0019uA	22.60mΩ
57	36.35V	0.0018uA	23.06mΩ	36.96V	0.0018uA	23.02mΩ
58	36.28V	0.0016uA	22.83mΩ	35.91V	0.0017uA	22.54mΩ



High Temperature Reverse Bias Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

Test Condition: 150 ± 5°C , 80% VR, T = 1000 hrs

Test Date: 2021.01.12 ~ 2021.02.24

Test Standard : JESD22 STANDARD Method-A108

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
59	36.68V	0.0019uA	22.61mΩ	36.02V	0.0020uA	22.92mΩ
60	36.35V	0.0019uA	23.20mΩ	36.88V	0.0018uA	22.64mΩ
61	36.28V	0.0016uA	22.57mΩ	35.96V	0.0015uA	23.08mΩ
62	36.30V	0.0018uA	22.86mΩ	36.22V	0.0016uA	23.02mΩ
63	36.18V	0.0018uA	22.63mΩ	36.69V	0.0018uA	22.77mΩ
64	36.31V	0.0016uA	22.75mΩ	35.90V	0.0018uA	22.85mΩ
65	35.91V	0.0017uA	23.04mΩ	36.44V	0.0019uA	22.76mΩ
66	35.96V	0.0019uA	22.95mΩ	36.89V	0.0019uA	23.08mΩ
67	35.92V	0.0015uA	22.82mΩ	36.82V	0.0016uA	23.18mΩ
68	36.27V	0.0017uA	22.92mΩ	35.86V	0.0016uA	22.71mΩ
69	36.86V	0.0017uA	22.91mΩ	36.38V	0.0020uA	22.64mΩ
70	36.61V	0.0016uA	22.68mΩ	36.75V	0.0018uA	23.02mΩ
71	36.05V	0.0019uA	23.17mΩ	36.65V	0.0017uA	22.55mΩ
72	35.96V	0.0019uA	22.51mΩ	36.43V	0.0017uA	22.64mΩ
73	36.54V	0.0017uA	22.79mΩ	36.33V	0.0015uA	22.60mΩ
74	36.07V	0.0020uA	23.11mΩ	35.96V	0.0017uA	22.78mΩ
75	36.04V	0.0015uA	22.81mΩ	36.16V	0.0015uA	22.53mΩ
76	36.69V	0.0015uA	22.99mΩ	36.36V	0.0018uA	22.83mΩ
77	36.86V	0.0020uA	22.65mΩ	35.87V	0.0019uA	22.90mΩ

Made By: King Huang

Approval: Peter Yang



High Temperature Storage Life Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

Test Condition: 150°C, 1000Hrs

Test Date: 2021.01.12 ~ 2021.02.24

Test Standard : JESD22 STANDARD Method-A103

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
1	36.73V	0.0017uA	22.80mΩ	36.64V	0.0016uA	23.00mΩ
2	35.97V	0.0018uA	22.46mΩ	36.10V	0.0016uA	23.04mΩ
3	37.00V	0.0016uA	22.59mΩ	36.87V	0.0016uA	22.77mΩ
4	36.05V	0.0016uA	22.98mΩ	36.01V	0.0019uA	23.14mΩ
5	35.85V	0.0019uA	22.76mΩ	36.38V	0.0019uA	22.64mΩ
6	36.18V	0.0020uA	22.81mΩ	36.55V	0.0017uA	23.07mΩ
7	36.09V	0.0018uA	22.56mΩ	36.27V	0.0016uA	22.86mΩ
8	36.91V	0.0020uA	22.66mΩ	36.43V	0.0018uA	23.07mΩ
9	36.96V	0.0019uA	22.47mΩ	36.13V	0.0020uA	22.58mΩ
10	36.58V	0.0015uA	22.49mΩ	36.33V	0.0019uA	22.58mΩ
11	36.99V	0.0019uA	22.89mΩ	35.94V	0.0020uA	22.79mΩ
12	36.86V	0.0019uA	22.87mΩ	36.76V	0.0017uA	23.08mΩ
18	36.52V	0.0017uA	22.74mΩ	36.70V	0.0019uA	22.88mΩ
18	36.92V	0.0017uA	22.72mΩ	36.97V	0.0016uA	23.04mΩ
15	36.71V	0.0017uA	22.88mΩ	35.98V	0.0019uA	22.96mΩ
16	36.03V	0.0016uA	22.92mΩ	36.44V	0.0016uA	22.71mΩ
17	36.54V	0.0017uA	22.97mΩ	36.27V	0.0017uA	23.16mΩ
18	36.94V	0.0017uA	22.84mΩ	35.84V	0.0017uA	22.55mΩ
19	36.01V	0.0016uA	22.63mΩ	36.14V	0.0017uA	22.71mΩ
20	36.06V	0.0019uA	23.03mΩ	36.76V	0.0017uA	22.92mΩ
21	35.88V	0.0015uA	23.03mΩ	36.19V	0.0018uA	22.74mΩ
22	36.72V	0.0019uA	22.69mΩ	36.66V	0.0016uA	22.46mΩ
23	36.50V	0.0015uA	22.47mΩ	36.57V	0.0016uA	22.90mΩ
24	36.15V	0.0016uA	22.86mΩ	36.54V	0.0018uA	23.06mΩ
25	36.96V	0.0015uA	22.79mΩ	36.27V	0.0018uA	22.59mΩ
26	35.98V	0.0015uA	22.87mΩ	36.47V	0.0015uA	22.79mΩ
27	36.05V	0.0019uA	23.11mΩ	36.19V	0.0016uA	22.50mΩ
28	36.94V	0.0015uA	22.79mΩ	36.41V	0.0016uA	22.67mΩ
29	36.56V	0.0018uA	22.46mΩ	36.02V	0.0017uA	22.64mΩ



High Temperature Storage Life Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

Test Condition: 150°C, 1000Hrs

Test Date: 2021.01.12 ~ 2021.02.24

Test Standard : JESD22 STANDARD Method-A103

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
30	36.63V	0.0018uA	22.54mΩ	36.67V	0.0018uA	23.09mΩ
31	35.99V	0.0018uA	23.14mΩ	36.96V	0.0016uA	22.63mΩ
32	36.06V	0.0015uA	22.56mΩ	36.12V	0.0015uA	22.86mΩ
33	36.06V	0.0019uA	22.90mΩ	36.84V	0.0016uA	23.10mΩ
34	36.15V	0.0016uA	23.18mΩ	36.20V	0.0016uA	22.43mΩ
35	35.85V	0.0016uA	22.87mΩ	36.39V	0.0015uA	22.83mΩ
36	36.16V	0.0018uA	22.80mΩ	36.99V	0.0015uA	22.63mΩ
37	35.94V	0.0019uA	22.56mΩ	36.04V	0.0018uA	23.05mΩ
38	36.36V	0.0015uA	23.02mΩ	35.89V	0.0016uA	22.80mΩ
39	36.78V	0.0016uA	22.90mΩ	35.85V	0.0016uA	22.67mΩ
40	36.90V	0.0016uA	22.63mΩ	36.64V	0.0016uA	22.69mΩ
41	36.09V	0.0015uA	23.18mΩ	36.37V	0.0019uA	22.58mΩ
42	36.84V	0.0015uA	22.68mΩ	36.95V	0.0018uA	22.72mΩ
43	36.18V	0.0019uA	22.68mΩ	36.80V	0.0018uA	23.17mΩ
44	36.89V	0.0017uA	23.19mΩ	36.98V	0.0018uA	22.45mΩ
45	36.01V	0.0017uA	22.86mΩ	36.67V	0.0017uA	22.68mΩ
46	36.40V	0.0018uA	22.89mΩ	36.55V	0.0018uA	22.91mΩ
47	36.94V	0.0017uA	22.63mΩ	36.89V	0.0019uA	22.70mΩ
48	35.91V	0.0015uA	22.88mΩ	36.62V	0.0020uA	22.83mΩ
49	36.91V	0.0016uA	22.73mΩ	36.50V	0.0019uA	23.09mΩ
50	36.17V	0.0018uA	22.54mΩ	35.89V	0.0019uA	22.70mΩ
51	36.29V	0.0017uA	23.13mΩ	36.99V	0.0019uA	22.49mΩ
52	36.08V	0.0017uA	22.73mΩ	36.19V	0.0017uA	23.00mΩ
53	36.42V	0.0018uA	22.43mΩ	35.83V	0.0019uA	23.03mΩ
54	36.09V	0.0015uA	23.04mΩ	35.95V	0.0016uA	23.12mΩ
55	36.48V	0.0016uA	22.73mΩ	36.61V	0.0017uA	22.52mΩ
56	37.01V	0.0019uA	22.96mΩ	36.88V	0.0018uA	22.57mΩ
57	36.12V	0.0015uA	22.64mΩ	36.12V	0.0015uA	22.72mΩ
58	36.59V	0.0019uA	22.47mΩ	37.00V	0.0019uA	22.43mΩ



High Temperature Storage Life Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

Test Condition: 150°C, 1000Hrs

Test Date: 2021.01.12 ~ 2021.02.24

Test Standard : JESD22 STANDARD Method-A103

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
59	36.19V	0.0015uA	22.55mΩ	36.90V	0.0017uA	22.61mΩ
60	35.86V	0.0017uA	23.16mΩ	36.00V	0.0018uA	23.07mΩ
61	36.99V	0.0019uA	22.46mΩ	36.28V	0.0016uA	22.83mΩ
62	35.96V	0.0017uA	22.90mΩ	36.81V	0.0018uA	22.70mΩ
63	36.67V	0.0016uA	22.66mΩ	36.65V	0.0017uA	22.94mΩ
64	36.56V	0.0018uA	23.06mΩ	36.14V	0.0017uA	23.20mΩ
65	36.20V	0.0018uA	22.45mΩ	36.47V	0.0019uA	22.66mΩ
66	36.10V	0.0018uA	22.83mΩ	36.31V	0.0017uA	22.84mΩ
67	36.54V	0.0016uA	23.02mΩ	36.90V	0.0018uA	23.18mΩ
68	36.52V	0.0019uA	22.64mΩ	36.68V	0.0018uA	22.95mΩ
69	36.00V	0.0018uA	22.79mΩ	36.05V	0.0020uA	22.60mΩ
70	37.00V	0.0018uA	22.54mΩ	36.73V	0.0019uA	22.99mΩ
71	36.57V	0.0018uA	23.10mΩ	36.55V	0.0015uA	22.50mΩ
72	36.03V	0.0017uA	22.59mΩ	36.16V	0.0018uA	22.86mΩ
73	37.00V	0.0018uA	22.85mΩ	36.16V	0.0016uA	22.72mΩ
74	36.92V	0.0018uA	23.05mΩ	36.04V	0.0017uA	23.15mΩ
75	36.26V	0.0017uA	23.18mΩ	36.47V	0.0016uA	22.88mΩ
76	36.21V	0.0018uA	23.15mΩ	35.88V	0.0015uA	23.02mΩ
77	35.97V	0.0017uA	22.53mΩ	36.24V	0.0020uA	22.95mΩ

Made By: King Huang

Approval: Peter Yang



SeCoS Corporation

Pressure Cooker Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

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

Test Date: 2021.01.11 ~ 2021.01.19

Test Standard : JESD22 STANDARD Method-A102

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
1	36.36V	0.0017uA	22.92mΩ	36.26V	0.0015uA	22.67mΩ
2	36.25V	0.0016uA	22.93mΩ	36.91V	0.0019uA	22.76mΩ
3	36.24V	0.0016uA	23.17mΩ	36.99V	0.0018uA	23.14mΩ
4	35.93V	0.0018uA	22.68mΩ	36.69V	0.0015uA	22.88mΩ
5	35.84V	0.0016uA	22.86mΩ	36.31V	0.0017uA	22.66mΩ
6	36.74V	0.0017uA	22.67mΩ	36.54V	0.0016uA	22.60mΩ
7	36.19V	0.0015uA	22.78mΩ	35.86V	0.0019uA	22.55mΩ
8	36.10V	0.0016uA	22.86mΩ	36.96V	0.0015uA	22.98mΩ
9	36.06V	0.0019uA	22.90mΩ	36.65V	0.0017uA	22.50mΩ
10	36.29V	0.0019uA	22.61mΩ	36.56V	0.0017uA	22.82mΩ
11	35.94V	0.0018uA	22.61mΩ	36.75V	0.0017uA	22.60mΩ
12	37.00V	0.0015uA	22.61mΩ	36.11V	0.0017uA	22.90mΩ
18	36.34V	0.0016uA	23.14mΩ	36.04V	0.0017uA	22.62mΩ
18	36.83V	0.0017uA	22.59mΩ	36.92V	0.0018uA	23.05mΩ
15	36.24V	0.0018uA	22.79mΩ	36.00V	0.0015uA	22.53mΩ
16	36.56V	0.0019uA	22.83mΩ	35.92V	0.0018uA	23.09mΩ
17	36.28V	0.0015uA	22.65mΩ	36.33V	0.0016uA	22.59mΩ
18	36.30V	0.0018uA	22.48mΩ	36.71V	0.0016uA	22.96mΩ
19	36.48V	0.0016uA	22.96mΩ	35.91V	0.0016uA	22.94mΩ
20	36.90V	0.0016uA	23.14mΩ	36.15V	0.0016uA	22.84mΩ
21	36.95V	0.0017uA	23.08mΩ	36.89V	0.0016uA	22.56mΩ
22	36.10V	0.0016uA	22.79mΩ	36.35V	0.0018uA	23.14mΩ
23	36.37V	0.0019uA	22.83mΩ	35.96V	0.0018uA	22.47mΩ
24	36.78V	0.0016uA	22.76mΩ	36.12V	0.0016uA	22.62mΩ
25	36.58V	0.0015uA	22.54mΩ	35.87V	0.0019uA	22.70mΩ
26	35.83V	0.0018uA	22.85mΩ	36.79V	0.0017uA	23.13mΩ
27	36.92V	0.0019uA	22.66mΩ	36.57V	0.0016uA	22.52mΩ
28	36.31V	0.0019uA	22.83mΩ	36.90V	0.0016uA	23.12mΩ
29	36.93V	0.0019uA	22.75mΩ	36.57V	0.0017uA	22.58mΩ



SeCoS Corporation

Pressure Cooker Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

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

Test Date: 2021.01.11 ~ 2021.01.19

Test Standard : JESD22 STANDARD Method-A102

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
30	36.89V	0.0018uA	22.95mΩ	36.21V	0.0017uA	23.19mΩ
31	36.92V	0.0019uA	22.81mΩ	35.87V	0.0016uA	22.74mΩ
32	35.92V	0.0018uA	22.78mΩ	36.71V	0.0017uA	23.17mΩ
33	36.02V	0.0018uA	23.15mΩ	36.38V	0.0018uA	22.67mΩ
34	36.33V	0.0016uA	22.57mΩ	37.00V	0.0016uA	22.77mΩ
35	36.42V	0.0019uA	22.69mΩ	36.33V	0.0015uA	23.04mΩ
36	35.99V	0.0016uA	23.17mΩ	35.99V	0.0018uA	23.02mΩ
37	36.79V	0.0019uA	22.56mΩ	36.98V	0.0020uA	22.73mΩ
38	36.56V	0.0017uA	23.11mΩ	35.92V	0.0016uA	22.52mΩ
39	36.13V	0.0015uA	22.56mΩ	36.42V	0.0017uA	22.66mΩ
40	36.89V	0.0016uA	23.04mΩ	36.27V	0.0019uA	22.89mΩ
41	36.03V	0.0019uA	23.17mΩ	36.78V	0.0015uA	22.94mΩ
42	36.40V	0.0017uA	22.87mΩ	36.17V	0.0018uA	22.70mΩ
43	36.77V	0.0016uA	23.05mΩ	36.15V	0.0018uA	22.83mΩ
44	36.28V	0.0015uA	22.58mΩ	36.34V	0.0018uA	22.79mΩ
45	36.89V	0.0018uA	22.99mΩ	36.58V	0.0016uA	23.16mΩ
46	35.92V	0.0020uA	22.78mΩ	36.37V	0.0016uA	22.69mΩ
47	36.69V	0.0015uA	22.60mΩ	36.72V	0.0016uA	23.10mΩ
48	36.46V	0.0016uA	22.97mΩ	36.05V	0.0018uA	23.17mΩ
49	36.67V	0.0016uA	22.58mΩ	36.14V	0.0019uA	22.52mΩ
50	36.25V	0.0019uA	22.99mΩ	35.96V	0.0020uA	22.71mΩ
51	36.25V	0.0015uA	22.61mΩ	36.86V	0.0016uA	22.49mΩ
52	36.66V	0.0015uA	22.63mΩ	35.91V	0.0017uA	22.75mΩ
53	36.92V	0.0019uA	22.84mΩ	36.38V	0.0019uA	22.83mΩ
54	35.85V	0.0018uA	22.70mΩ	36.16V	0.0018uA	23.04mΩ
55	36.42V	0.0015uA	22.79mΩ	36.94V	0.0019uA	22.56mΩ
56	36.16V	0.0020uA	22.71mΩ	36.69V	0.0015uA	23.16mΩ
57	36.70V	0.0019uA	22.84mΩ	36.78V	0.0016uA	22.55mΩ
58	36.19V	0.0016uA	23.04mΩ	35.97V	0.0018uA	22.95mΩ



SeCoS Corporation

Pressure Cooker Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

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

Test Date: 2021.01.11 ~ 2021.01.19

Test Standard : JESD22 STANDARD Method-A102

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
59	36.86V	0.0016uA	22.63mΩ	36.88V	0.0018uA	22.59mΩ
60	35.83V	0.0015uA	22.52mΩ	35.87V	0.0019uA	22.76mΩ
61	36.11V	0.0019uA	22.46mΩ	35.84V	0.0016uA	22.50mΩ
62	36.08V	0.0018uA	23.14mΩ	36.48V	0.0020uA	22.83mΩ
63	36.45V	0.0019uA	22.82mΩ	35.88V	0.0020uA	22.81mΩ
64	36.27V	0.0016uA	22.98mΩ	36.17V	0.0018uA	23.19mΩ
65	36.33V	0.0018uA	22.46mΩ	36.76V	0.0019uA	22.78mΩ
66	35.86V	0.0019uA	22.89mΩ	36.34V	0.0019uA	23.09mΩ
67	36.32V	0.0017uA	22.68mΩ	37.01V	0.0017uA	22.84mΩ
68	35.86V	0.0017uA	23.17mΩ	36.18V	0.0020uA	22.50mΩ
69	36.38V	0.0016uA	22.76mΩ	36.82V	0.0015uA	22.46mΩ
70	36.40V	0.0018uA	22.73mΩ	36.54V	0.0015uA	22.51mΩ
71	36.69V	0.0016uA	22.87mΩ	35.85V	0.0016uA	22.82mΩ
72	36.43V	0.0016uA	22.97mΩ	36.04V	0.0017uA	22.55mΩ
73	36.93V	0.0019uA	22.82mΩ	36.59V	0.0019uA	22.66mΩ
74	36.90V	0.0017uA	23.17mΩ	36.23V	0.0016uA	22.97mΩ
75	36.37V	0.0016uA	22.77mΩ	36.45V	0.0016uA	22.78mΩ
76	36.24V	0.0015uA	22.98mΩ	35.87V	0.0016uA	22.71mΩ
77	35.93V	0.0016uA	22.51mΩ	36.20V	0.0018uA	23.20mΩ

Made By: King Huang

Approval: Peter Yang



Temperature Cycle Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

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

Test Date: 2021.01.15 ~ 2021.03.08

Test Standard : JESD22 STANDARD Method-A104

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
1	36.22V	0.0016uA	22.82mΩ	36.77V	0.0018uA	22.92mΩ
2	36.62V	0.0018uA	22.51mΩ	36.73V	0.0016uA	22.84mΩ
3	36.36V	0.0017uA	22.86mΩ	36.08V	0.0016uA	22.51mΩ
4	36.80V	0.0018uA	22.63mΩ	36.13V	0.0016uA	22.84mΩ
5	36.05V	0.0018uA	23.01mΩ	36.44V	0.0017uA	22.75mΩ
6	35.87V	0.0016uA	22.52mΩ	36.54V	0.0017uA	22.51mΩ
7	36.28V	0.0019uA	22.63mΩ	36.86V	0.0015uA	22.77mΩ
8	36.46V	0.0016uA	23.07mΩ	36.42V	0.0016uA	22.97mΩ
9	36.52V	0.0019uA	23.09mΩ	36.92V	0.0015uA	23.07mΩ
10	36.74V	0.0017uA	23.05mΩ	35.98V	0.0017uA	22.52mΩ
11	35.97V	0.0015uA	23.01mΩ	36.91V	0.0017uA	23.12mΩ
12	36.60V	0.0016uA	22.54mΩ	36.10V	0.0015uA	22.56mΩ
18	36.32V	0.0017uA	22.79mΩ	36.34V	0.0016uA	22.45mΩ
18	35.86V	0.0019uA	22.56mΩ	36.10V	0.0018uA	23.09mΩ
15	36.18V	0.0016uA	22.82mΩ	36.58V	0.0018uA	22.44mΩ
16	36.29V	0.0019uA	22.58mΩ	36.28V	0.0017uA	22.51mΩ
17	36.53V	0.0016uA	22.60mΩ	36.63V	0.0016uA	22.65mΩ
18	35.93V	0.0018uA	22.86mΩ	36.68V	0.0019uA	23.02mΩ
19	36.40V	0.0019uA	23.00mΩ	36.26V	0.0018uA	22.53mΩ
20	36.46V	0.0019uA	22.79mΩ	35.96V	0.0018uA	23.14mΩ
21	36.46V	0.0017uA	22.97mΩ	36.33V	0.0019uA	23.13mΩ
22	36.18V	0.0016uA	22.68mΩ	37.01V	0.0016uA	22.59mΩ
23	35.99V	0.0017uA	22.76mΩ	36.32V	0.0017uA	22.52mΩ
24	36.05V	0.0017uA	23.05mΩ	36.00V	0.0018uA	22.79mΩ
25	36.11V	0.0016uA	22.82mΩ	36.30V	0.0017uA	23.07mΩ
26	36.77V	0.0017uA	22.60mΩ	36.00V	0.0017uA	22.81mΩ
27	35.88V	0.0016uA	23.10mΩ	36.35V	0.0018uA	22.88mΩ
28	36.55V	0.0017uA	22.90mΩ	36.71V	0.0019uA	22.95mΩ
29	36.65V	0.0018uA	22.72mΩ	36.21V	0.0015uA	22.91mΩ



SeCoS Corporation

Temperature Cycle Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

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

Test Date: 2021.01.15 ~ 2021.03.08

Test Standard : JESD22 STANDARD Method-A104

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
30	36.89V	0.0020uA	22.60mΩ	36.56V	0.0017uA	22.96mΩ
31	36.83V	0.0017uA	22.93mΩ	36.58V	0.0018uA	22.46mΩ
32	36.80V	0.0017uA	22.94mΩ	36.07V	0.0018uA	22.95mΩ
33	36.46V	0.0019uA	22.69mΩ	36.83V	0.0017uA	22.46mΩ
34	36.41V	0.0016uA	23.05mΩ	36.72V	0.0019uA	22.50mΩ
35	36.01V	0.0015uA	22.87mΩ	36.96V	0.0018uA	22.82mΩ
36	36.71V	0.0017uA	23.07mΩ	35.96V	0.0019uA	22.73mΩ
37	36.69V	0.0016uA	22.92mΩ	36.55V	0.0018uA	22.45mΩ
38	35.87V	0.0017uA	22.68mΩ	36.12V	0.0019uA	23.02mΩ
39	36.71V	0.0016uA	22.61mΩ	36.74V	0.0017uA	22.50mΩ
40	36.63V	0.0016uA	22.78mΩ	36.66V	0.0019uA	22.62mΩ
41	36.91V	0.0018uA	22.66mΩ	36.13V	0.0016uA	22.62mΩ
42	35.90V	0.0017uA	22.54mΩ	35.84V	0.0015uA	22.83mΩ
43	36.39V	0.0018uA	22.75mΩ	36.95V	0.0016uA	22.92mΩ
44	37.01V	0.0019uA	23.03mΩ	36.75V	0.0018uA	23.06mΩ
45	36.26V	0.0018uA	22.61mΩ	35.87V	0.0019uA	22.52mΩ
46	36.44V	0.0018uA	22.74mΩ	36.39V	0.0017uA	22.74mΩ
47	36.30V	0.0016uA	22.71mΩ	36.45V	0.0018uA	23.17mΩ
48	36.59V	0.0015uA	22.59mΩ	36.94V	0.0019uA	23.08mΩ
49	36.44V	0.0020uA	22.83mΩ	36.49V	0.0019uA	22.69mΩ
50	36.66V	0.0016uA	22.52mΩ	36.19V	0.0017uA	22.97mΩ
51	36.41V	0.0017uA	23.17mΩ	36.49V	0.0018uA	22.88mΩ
52	36.51V	0.0018uA	22.69mΩ	36.45V	0.0019uA	22.48mΩ
53	36.69V	0.0017uA	22.98mΩ	35.84V	0.0019uA	22.60mΩ
54	36.01V	0.0017uA	22.90mΩ	36.66V	0.0020uA	22.56mΩ
55	36.88V	0.0015uA	22.94mΩ	36.33V	0.0017uA	22.54mΩ
56	36.37V	0.0018uA	22.95mΩ	36.47V	0.0019uA	23.18mΩ
57	36.36V	0.0016uA	23.14mΩ	36.73V	0.0018uA	22.71mΩ
58	35.97V	0.0019uA	22.46mΩ	35.92V	0.0015uA	22.90mΩ



SeCoS Corporation

Temperature Cycle Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

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

Test Date: 2021.01.15 ~ 2021.03.08

Test Standard : JESD22 STANDARD Method-A104

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
59	36.56V	0.0017uA	22.57mΩ	36.77V	0.0017uA	22.83mΩ
60	36.49V	0.0016uA	23.20mΩ	36.57V	0.0018uA	23.02mΩ
61	36.05V	0.0020uA	22.46mΩ	36.03V	0.0016uA	22.78mΩ
62	36.62V	0.0015uA	22.87mΩ	36.84V	0.0019uA	23.07mΩ
63	35.84V	0.0017uA	23.19mΩ	36.09V	0.0018uA	23.10mΩ
64	36.48V	0.0019uA	22.65mΩ	36.09V	0.0016uA	22.94mΩ
65	36.56V	0.0018uA	22.62mΩ	36.17V	0.0016uA	22.51mΩ
66	36.19V	0.0018uA	22.56mΩ	36.13V	0.0017uA	23.15mΩ
67	35.86V	0.0018uA	22.56mΩ	36.51V	0.0016uA	22.75mΩ
68	36.95V	0.0017uA	22.65mΩ	37.01V	0.0019uA	22.81mΩ
69	36.44V	0.0016uA	22.78mΩ	36.27V	0.0016uA	22.82mΩ
70	36.36V	0.0018uA	22.69mΩ	36.51V	0.0019uA	22.92mΩ
71	35.87V	0.0017uA	23.07mΩ	36.00V	0.0018uA	23.02mΩ
72	36.81V	0.0018uA	22.71mΩ	36.65V	0.0018uA	22.72mΩ
73	36.74V	0.0015uA	22.71mΩ	36.05V	0.0019uA	22.70mΩ
74	36.27V	0.0015uA	22.62mΩ	36.61V	0.0015uA	22.67mΩ
75	36.13V	0.0018uA	23.03mΩ	36.04V	0.0017uA	22.50mΩ
76	36.75V	0.0017uA	22.93mΩ	36.01V	0.0017uA	22.98mΩ
77	36.30V	0.0019uA	22.79mΩ	36.00V	0.0017uA	23.05mΩ

Made By: King Huang

Approval: Peter Yang



High Temperature High Humidity Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

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

Test Date: 2021.01.19 ~ 2021.03.03

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
1	36.32V	0.0016uA	22.49mΩ	36.51V	0.0019uA	22.63mΩ
2	36.28V	0.0020uA	22.88mΩ	36.11V	0.0015uA	22.94mΩ
3	36.44V	0.0019uA	23.17mΩ	36.02V	0.0017uA	23.18mΩ
4	36.51V	0.0015uA	22.79mΩ	35.83V	0.0017uA	22.43mΩ
5	36.85V	0.0017uA	22.82mΩ	36.82V	0.0016uA	22.91mΩ
6	36.42V	0.0020uA	22.72mΩ	36.40V	0.0016uA	22.84mΩ
7	35.99V	0.0017uA	22.48mΩ	35.95V	0.0019uA	22.58mΩ
8	36.11V	0.0019uA	23.04mΩ	36.25V	0.0018uA	22.69mΩ
9	36.09V	0.0017uA	22.63mΩ	36.53V	0.0017uA	23.02mΩ
10	36.48V	0.0019uA	23.18mΩ	36.38V	0.0016uA	23.13mΩ
11	36.93V	0.0018uA	22.66mΩ	36.38V	0.0017uA	22.71mΩ
12	36.98V	0.0018uA	23.04mΩ	36.19V	0.0019uA	22.52mΩ
18	36.85V	0.0016uA	22.48mΩ	36.35V	0.0017uA	22.67mΩ
18	36.62V	0.0015uA	22.80mΩ	36.62V	0.0017uA	22.65mΩ
15	36.29V	0.0018uA	23.04mΩ	36.66V	0.0018uA	22.96mΩ
16	36.70V	0.0019uA	23.10mΩ	36.93V	0.0017uA	22.77mΩ
17	36.91V	0.0017uA	22.82mΩ	36.14V	0.0017uA	22.59mΩ
18	36.92V	0.0018uA	22.89mΩ	36.98V	0.0016uA	23.15mΩ
19	36.92V	0.0017uA	22.57mΩ	36.14V	0.0019uA	23.07mΩ
20	36.22V	0.0019uA	22.98mΩ	36.93V	0.0015uA	22.56mΩ
21	36.71V	0.0017uA	22.56mΩ	36.78V	0.0017uA	22.82mΩ
22	36.15V	0.0017uA	23.16mΩ	36.75V	0.0016uA	22.63mΩ
23	36.44V	0.0019uA	22.51mΩ	36.01V	0.0015uA	22.49mΩ
24	36.90V	0.0016uA	22.76mΩ	36.00V	0.0016uA	22.51mΩ
25	36.60V	0.0018uA	23.05mΩ	36.36V	0.0017uA	22.58mΩ
26	36.24V	0.0016uA	22.70mΩ	37.00V	0.0017uA	23.02mΩ
27	36.77V	0.0020uA	22.64mΩ	36.87V	0.0016uA	22.81mΩ
28	37.01V	0.0019uA	22.73mΩ	35.94V	0.0018uA	22.46mΩ
29	36.05V	0.0017uA	23.03mΩ	35.87V	0.0015uA	22.78mΩ



High Temperature High Humidity Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

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

Test Date: 2021.01.19 ~ 2021.03.03

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
30	36.52V	0.0016uA	22.53mΩ	35.86V	0.0015uA	22.80mΩ
31	36.04V	0.0015uA	22.43mΩ	36.45V	0.0017uA	22.82mΩ
32	35.91V	0.0017uA	22.97mΩ	35.95V	0.0018uA	22.79mΩ
33	36.22V	0.0018uA	22.84mΩ	36.61V	0.0020uA	22.94mΩ
34	37.01V	0.0017uA	22.47mΩ	36.73V	0.0019uA	22.64mΩ
35	36.93V	0.0015uA	23.00mΩ	36.52V	0.0019uA	22.77mΩ
36	36.70V	0.0016uA	23.13mΩ	36.99V	0.0018uA	23.07mΩ
37	36.01V	0.0019uA	22.53mΩ	36.12V	0.0017uA	22.51mΩ
38	36.98V	0.0016uA	23.05mΩ	36.54V	0.0019uA	22.93mΩ
39	36.68V	0.0016uA	22.75mΩ	36.91V	0.0016uA	22.81mΩ
40	36.58V	0.0018uA	22.60mΩ	36.23V	0.0017uA	22.95mΩ
41	36.23V	0.0019uA	22.91mΩ	36.15V	0.0017uA	22.49mΩ
42	36.46V	0.0016uA	22.48mΩ	36.62V	0.0015uA	22.49mΩ
43	36.39V	0.0016uA	23.14mΩ	36.50V	0.0018uA	22.51mΩ
44	36.28V	0.0016uA	22.98mΩ	36.63V	0.0016uA	22.56mΩ
45	36.84V	0.0018uA	22.72mΩ	36.30V	0.0018uA	22.54mΩ
46	36.24V	0.0017uA	22.50mΩ	36.53V	0.0019uA	22.84mΩ
47	36.62V	0.0017uA	22.73mΩ	36.81V	0.0017uA	22.64mΩ
48	36.37V	0.0016uA	22.55mΩ	36.31V	0.0016uA	22.51mΩ
49	35.85V	0.0019uA	22.90mΩ	36.01V	0.0018uA	22.79mΩ
50	36.28V	0.0016uA	22.52mΩ	36.73V	0.0019uA	22.95mΩ
51	36.15V	0.0016uA	22.62mΩ	36.61V	0.0017uA	23.07mΩ
52	36.45V	0.0019uA	22.94mΩ	35.98V	0.0016uA	22.83mΩ
53	36.40V	0.0015uA	23.11mΩ	36.13V	0.0018uA	22.64mΩ
54	36.61V	0.0018uA	22.51mΩ	36.91V	0.0017uA	22.94mΩ
55	36.57V	0.0017uA	22.55mΩ	36.28V	0.0016uA	22.70mΩ
56	36.25V	0.0016uA	23.02mΩ	36.40V	0.0018uA	23.16mΩ
57	35.89V	0.0016uA	22.67mΩ	36.77V	0.0016uA	22.84mΩ
58	36.69V	0.0015uA	22.79mΩ	36.21V	0.0017uA	22.95mΩ



High Temperature High Humidity Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

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

Test Date: 2021.01.19 ~ 2021.03.03

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
59	36.33V	0.0019uA	23.19mΩ	36.90V	0.0020uA	23.11mΩ
60	36.76V	0.0015uA	22.97mΩ	36.45V	0.0018uA	23.11mΩ
61	36.65V	0.0019uA	22.96mΩ	36.94V	0.0017uA	22.44mΩ
62	36.79V	0.0017uA	23.11mΩ	36.43V	0.0017uA	22.80mΩ
63	35.99V	0.0019uA	22.83mΩ	36.30V	0.0016uA	22.49mΩ
64	35.99V	0.0017uA	22.53mΩ	36.11V	0.0016uA	23.12mΩ
65	36.75V	0.0017uA	23.18mΩ	36.90V	0.0015uA	22.78mΩ
66	36.94V	0.0016uA	22.72mΩ	36.21V	0.0016uA	22.55mΩ
67	36.79V	0.0019uA	22.49mΩ	35.89V	0.0018uA	22.52mΩ
68	36.71V	0.0019uA	22.56mΩ	36.92V	0.0016uA	23.17mΩ
69	36.72V	0.0020uA	23.05mΩ	36.35V	0.0019uA	23.15mΩ
70	36.03V	0.0016uA	23.00mΩ	36.49V	0.0017uA	23.03mΩ
71	36.19V	0.0018uA	22.93mΩ	36.94V	0.0016uA	22.76mΩ
72	37.00V	0.0019uA	22.94mΩ	36.15V	0.0015uA	22.51mΩ
73	36.85V	0.0015uA	22.63mΩ	36.58V	0.0016uA	22.56mΩ
74	36.32V	0.0017uA	22.62mΩ	36.64V	0.0017uA	22.94mΩ
75	36.07V	0.0016uA	22.69mΩ	36.47V	0.0019uA	22.64mΩ
76	35.98V	0.0016uA	22.50mΩ	36.33V	0.0019uA	22.73mΩ
77	36.95V	0.0018uA	22.60mΩ	35.94V	0.0017uA	22.44mΩ

Made By: King Huang

Approval: Peter Yang



High Temper High Humidity Reverse Bies Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

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

Test Date: 2021.01.19 ~ 2021.03.03

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
1	36.87V	0.0018uA	22.91mΩ	36.61V	0.0017uA	23.03mΩ
2	36.22V	0.0016uA	22.63mΩ	36.27V	0.0019uA	23.07mΩ
3	36.42V	0.0016uA	23.09mΩ	36.27V	0.0020uA	22.66mΩ
4	35.92V	0.0020uA	22.63mΩ	36.19V	0.0019uA	22.93mΩ
5	35.87V	0.0015uA	22.94mΩ	36.57V	0.0016uA	22.69mΩ
6	36.64V	0.0017uA	23.04mΩ	36.36V	0.0018uA	22.48mΩ
7	36.49V	0.0020uA	22.70mΩ	36.17V	0.0018uA	22.92mΩ
8	36.63V	0.0018uA	22.47mΩ	36.52V	0.0015uA	23.10mΩ
9	36.61V	0.0015uA	23.01mΩ	35.98V	0.0017uA	23.14mΩ
10	36.11V	0.0019uA	23.06mΩ	36.53V	0.0019uA	23.00mΩ
11	36.51V	0.0019uA	22.44mΩ	36.84V	0.0016uA	23.11mΩ
12	36.92V	0.0018uA	22.97mΩ	36.02V	0.0016uA	22.83mΩ
18	35.99V	0.0017uA	22.65mΩ	36.67V	0.0018uA	22.63mΩ
18	36.23V	0.0017uA	23.02mΩ	37.01V	0.0020uA	23.13mΩ
15	37.02V	0.0016uA	22.80mΩ	36.44V	0.0016uA	23.15mΩ
16	35.98V	0.0016uA	22.66mΩ	36.98V	0.0019uA	22.83mΩ
17	36.08V	0.0015uA	23.15mΩ	36.37V	0.0017uA	23.02mΩ
18	35.84V	0.0015uA	22.51mΩ	36.60V	0.0016uA	22.63mΩ
19	36.76V	0.0019uA	22.58mΩ	36.89V	0.0018uA	22.59mΩ
20	36.36V	0.0019uA	22.77mΩ	35.97V	0.0016uA	23.05mΩ
21	35.90V	0.0020uA	23.13mΩ	36.95V	0.0018uA	22.62mΩ
22	36.45V	0.0018uA	22.98mΩ	35.96V	0.0017uA	22.50mΩ
23	36.72V	0.0017uA	23.05mΩ	36.43V	0.0016uA	22.72mΩ
24	36.45V	0.0018uA	22.75mΩ	36.95V	0.0019uA	22.80mΩ
25	36.87V	0.0019uA	23.06mΩ	36.47V	0.0018uA	22.77mΩ
26	36.72V	0.0016uA	23.11mΩ	36.29V	0.0017uA	22.54mΩ
27	36.37V	0.0018uA	22.80mΩ	36.01V	0.0015uA	22.87mΩ
28	36.77V	0.0017uA	22.74mΩ	36.46V	0.0017uA	22.79mΩ
29	36.82V	0.0017uA	23.20mΩ	36.99V	0.0016uA	22.58mΩ



High Temper High Humidity Reverse Bies Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250 μ A ; IDSS < 1.0 μ A@VDS=24V

RDS(ON) < 32m Ω @VGS=10V, ID=5.8A

Test Condition: 85 \pm 2 $^{\circ}$ C , 85 \pm 5%RH, 80% VR, 1000Hrs

Test Date: 2021.01.19 ~ 2021.03.03

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
30	36.45V	0.0019 μ A	22.68m Ω	35.96V	0.0018 μ A	23.07m Ω
31	36.96V	0.0015 μ A	22.90m Ω	36.85V	0.0018 μ A	22.57m Ω
32	36.97V	0.0017 μ A	22.70m Ω	36.90V	0.0016 μ A	23.09m Ω
33	36.55V	0.0015 μ A	22.52m Ω	36.02V	0.0016 μ A	22.75m Ω
34	36.35V	0.0019 μ A	22.63m Ω	36.19V	0.0017 μ A	22.47m Ω
35	36.18V	0.0017 μ A	22.71m Ω	36.56V	0.0016 μ A	22.95m Ω
36	35.84V	0.0015 μ A	22.49m Ω	36.83V	0.0018 μ A	22.80m Ω
37	36.54V	0.0018 μ A	22.61m Ω	36.21V	0.0016 μ A	22.49m Ω
38	36.52V	0.0019 μ A	22.52m Ω	35.98V	0.0019 μ A	23.00m Ω
39	36.13V	0.0015 μ A	22.96m Ω	36.09V	0.0018 μ A	22.89m Ω
40	36.68V	0.0019 μ A	22.86m Ω	36.55V	0.0017 μ A	22.66m Ω
41	36.66V	0.0019 μ A	22.87m Ω	36.53V	0.0017 μ A	22.53m Ω
42	36.84V	0.0016 μ A	23.14m Ω	36.29V	0.0018 μ A	22.85m Ω
43	36.00V	0.0018 μ A	22.65m Ω	36.41V	0.0017 μ A	23.01m Ω
44	36.73V	0.0017 μ A	23.14m Ω	36.67V	0.0017 μ A	23.18m Ω
45	36.21V	0.0019 μ A	22.79m Ω	35.93V	0.0016 μ A	23.17m Ω
46	36.40V	0.0019 μ A	22.61m Ω	36.93V	0.0015 μ A	22.96m Ω
47	36.88V	0.0018 μ A	22.84m Ω	35.92V	0.0015 μ A	23.16m Ω
48	36.98V	0.0016 μ A	22.45m Ω	36.22V	0.0015 μ A	22.44m Ω
49	36.81V	0.0017 μ A	23.03m Ω	36.85V	0.0019 μ A	23.19m Ω
50	35.89V	0.0018 μ A	22.81m Ω	36.44V	0.0019 μ A	22.45m Ω
51	36.91V	0.0018 μ A	22.54m Ω	36.90V	0.0018 μ A	22.83m Ω
52	36.43V	0.0020 μ A	22.66m Ω	35.89V	0.0015 μ A	22.45m Ω
53	36.62V	0.0018 μ A	22.62m Ω	36.00V	0.0018 μ A	22.73m Ω
54	35.99V	0.0016 μ A	22.99m Ω	36.97V	0.0016 μ A	22.45m Ω
55	36.80V	0.0019 μ A	23.04m Ω	36.50V	0.0016 μ A	22.83m Ω
56	36.71V	0.0019 μ A	22.79m Ω	36.23V	0.0018 μ A	22.83m Ω
57	36.44V	0.0019 μ A	22.72m Ω	36.54V	0.0019 μ A	22.57m Ω
58	36.04V	0.0018 μ A	22.59m Ω	36.93V	0.0015 μ A	23.05m Ω



High Temper High Humidity Reverse Bies Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

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

Test Date: 2021.01.19 ~ 2021.03.03

Test Standard : JESD22 STANDARD Method-A101

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
59	35.87V	0.0016uA	22.65mΩ	36.89V	0.0017uA	22.83mΩ
60	36.17V	0.0017uA	22.87mΩ	36.79V	0.0019uA	23.01mΩ
61	36.76V	0.0015uA	23.08mΩ	36.90V	0.0017uA	23.00mΩ
62	36.07V	0.0019uA	22.55mΩ	36.11V	0.0015uA	23.02mΩ
63	35.89V	0.0017uA	22.90mΩ	36.54V	0.0018uA	22.80mΩ
64	36.99V	0.0017uA	22.99mΩ	36.28V	0.0016uA	22.61mΩ
65	36.67V	0.0019uA	22.95mΩ	36.28V	0.0019uA	22.92mΩ
66	36.89V	0.0018uA	22.44mΩ	35.98V	0.0017uA	23.16mΩ
67	36.67V	0.0019uA	22.80mΩ	36.88V	0.0018uA	22.53mΩ
68	36.54V	0.0019uA	23.04mΩ	36.83V	0.0016uA	22.56mΩ
69	36.00V	0.0016uA	22.72mΩ	36.90V	0.0016uA	22.81mΩ
70	37.01V	0.0015uA	23.17mΩ	36.21V	0.0017uA	22.46mΩ
71	36.06V	0.0016uA	22.56mΩ	36.20V	0.0016uA	22.95mΩ
72	35.97V	0.0017uA	23.17mΩ	36.88V	0.0017uA	22.71mΩ
73	37.02V	0.0018uA	22.69mΩ	36.40V	0.0019uA	22.75mΩ
74	36.16V	0.0017uA	22.49mΩ	35.89V	0.0017uA	22.99mΩ
75	36.11V	0.0017uA	22.89mΩ	36.85V	0.0016uA	22.53mΩ
76	36.68V	0.0018uA	22.87mΩ	36.96V	0.0019uA	23.05mΩ
77	35.97V	0.0016uA	22.52mΩ	35.87V	0.0017uA	23.12mΩ

Made By: King Huang

Approval: Peter Yang



SeCoS Corporation

Solderability Test Data

Report No : T210309-MS3400A

Part No : SMS3400A-C

Test Equipment: JUNO Test System DTS-1000

Test Condition : 30V <V(BR)DSS @ID=250μA ; IDSS < 1.0μA@VDS=24V

RDS(ON) < 32mΩ@VGS=10V, ID=5.8A

Test Condition: 245°C ± 5°C, 5Sec

Test Date: 2021.03.09

Test Standard : JESD22 STANDER Method-B102

Operator: Leo Hsia

Test Result: PASS

No	Before			After		
	V(BR)DSS	IDSS	RDS(ON)	V(BR)DSS	IDSS	RDS(ON)
1	36.01V	0.0015uA	22.96mΩ	36.30V	0.0017uA	22.96mΩ
2	36.14V	0.0020uA	22.91mΩ	36.25V	0.0019uA	22.61mΩ
3	36.92V	0.0016uA	22.55mΩ	35.98V	0.0019uA	22.85mΩ
4	36.63V	0.0018uA	22.89mΩ	36.30V	0.0016uA	22.43mΩ
5	35.83V	0.0017uA	22.61mΩ	36.73V	0.0015uA	22.80mΩ
6	36.08V	0.0019uA	23.09mΩ	36.58V	0.0019uA	23.11mΩ
7	36.78V	0.0015uA	22.87mΩ	36.37V	0.0016uA	22.71mΩ
8	36.58V	0.0015uA	22.73mΩ	36.94V	0.0019uA	22.45mΩ
9	36.38V	0.0019uA	22.54mΩ	36.24V	0.0015uA	22.81mΩ
10	36.55V	0.0017uA	22.81mΩ	36.89V	0.0018uA	22.85mΩ

Made By: King Huang

Approval: Peter Yang