www.SeCosGmbH.com

Headquarter Address:
8F.No.33, Lane 155, Sec.3, Bei-Shen Rd.,
Shen Keng Dist, New Taipei City, Taiwan
TEL: +886-2-26620988
FAX: +886-2-26620488

Product/Process Change Notification

PCN#	Effective Date	Issue Date
2017-05-25C-06	2017/8/25	2017/5/25

PCN Classification	Product Category
Major	Diode

Subject

Production process change from lead free to halogen free.

Affected Product(s)

SMAM Package of Diode, Such as attachments.

Description of Change(s)

To meet EU environment requirement, we implement halogen free to our products.

Content of Change(s)

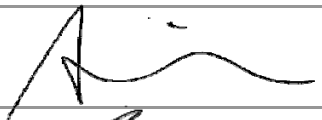
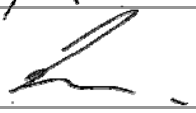
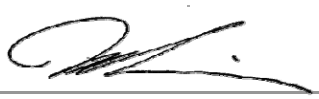
Adding “-C” to each part number.

Impact(s)

N/A

Attachment(s)

SGS report. 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

www.SeCosGmbH.com

Headquarter Address:
8F.No.33, Lane 155, Sec.3, Bei-Shen Rd.,
Shen Keng Dist, New Taipei City, Taiwan
TEL: +886-2-26620988
FAX: +886-2-26620488

Affected Product(s)

SM120AM	QG204AM	SUF104AM
SM140AM	QG205AM	SUF105AM
SM160AM	QG206AM	SUF201AM
SM1100AM	QG207AM	SUF202AM
SM1150AM	QG301AM	SUF203AM
SM1200AM	QG302AM	SUF204AM
SM220AM	QG303AM	SUF205AM
SM240AM	QG304AM	SUF301AM
SM260AM	QG305AM	SUF302AM
SM2100AM	QG306AM	SUF303AM
SM2150AM	QG307AM	SUF304AM
SM2200AM	SMF101AM	SUF305AM
SM320AM	SMF102AM	SEF101AM
SM340AM	SMF103AM	SEF102AM
SM360AM	SMF104AM	SEF103AM
SM3100AM	SMF105AM	SEF104AM
SM3150AM	SMF106AM	SEF105AM
SM3200AM	SMF107AM	SEF106AM
SM520AM	SMF201AM	SEF107AM
SM540AM	SMF202AM	SEF201AM
SM560AM	SMF203AM	SEF202AM
SM5100AM	SMF204AM	SEF203AM
SM5150AM	SMF205AM	SEF204AM
SM5200AM	SMF206AM	SEF205AM
SK5150AM	SMF207AM	SEF206AM
SM4001AM	SMF301AM	SEF207AM
SM4002AM	SMF302AM	SEF301AM
SM4003AM	SMF303AM	SEF302AM
SM4004AM	SMF304AM	SEF303AM
SM4005AM	SMF305AM	SEF304AM
SM4006AM	SMF306AM	SEF305AM
SM4007AM	SMF307AM	SEF306AM
QG201AM	SUF101AM	SEF307AM
QG202AM	SUF102AM	
QG203AM	SUF103AM	

Jiangsu HHCK Advanced Materials Co., Ltd.

66 Eastern Avenue,Economic & Technical Development Zone,Lianyungang,Jiangsu, China

The following sample(s) was/were submitted and identified on behalf of the clients as : Epoxy molding compound

SGS Job No. :	SP17-015627 - SH
Model No. :	EMG
Client Ref. Information :	EMG-100,EMG-100-1,EMG-100-2,EMG-100-3,EMG-100-4,EMG-100-B,EMG-100-H,EMG-100-N,EMG-100-S1,EMG-100-2N,EMG-100-S,EMG-100-2S,EMG-120,EMG-120-1,EMG-120-1N,EMG-120-2N,EMG-120-2N1,EMG-120-2N2,EMG-120-1K,EMG-120-A,EMG-200,EMG-200-1,EMG-200-2,EMG-200-3,\ EMG-200-D,EMG-200-DJ,EMG-200-S,EMG-200-S1,EMG-200-TM,EMG-250-S,EMG-300,EMG-350,EMG-350-1,EMG-350-2M,EMG-350-H,EMG-350-M,EMG-350-S1,EMG-400,EMG-400-1,EMG-400-1A,EMG-400-2,EMG-400-2FF,EMG-400-2M2,EMG-400-5,EMG-400-5A,EMG-400-1F,EMG-400-1FF,EMG-400-1FY, EMG-400-C,EMG-400-FL,EMG-400-NXP,EMG-400-GM,EMG-400-HT,EMG-400-HV,EMG-400-S,EMG-400-S1,EMG-400SV,EMG-400SV-S,EMG-400SV-SS,EMG-400SV-1,EMG-400SV-1JD,EMG-400SV-2,EMG-400SV-4,EMG-400SV-6,EMG-400SV-J,EMG-400SV-ST,EMG-430,EMG-460,EMG-460-2,EMG-460-3, EMG-460-6,EMG-460-8,EMG-460-9,EMG-480-1,EMG-480-1T,EMG-480-2,EMG-480-3,EMG-480-4,EMG-480-5,EMG-480-HV,EMG-480-S,EMG-500,EMG-500-2,EMG-500-TW,EMG-550,EMG-550-H,EMG-600,EMG-600-1,EMG-600-2,EMG-600-2AH,EMG-600-2D,EMG-600-2G,EMG-600-2JD,EMG-600-2Y, EMG-600-3,EMG-600-5,EMG-600-5A,EMG-600-6,EMG-600-55M,EMG-600-L,EMG-600-LG,EMG-600-S,EMG-620-1,EMG-620-1T,EMG-620-2,EMG-620-3,EMG-620-T,EMG-630-HT,EMG-650-1,EMG-650-2,EMG-660-1,EMG-660-2,EMG-680-1,EMG-680-2,EMG-660,EMG-700,EMG-700-2,EMG-700-2H, EMG-700-2T,EMG-700-3,EMG-700-3H,EMG-700-D1,EMG-700-D3,EMG-700-F,EMG-700-N,EMG-700-N5M,EMG-700-HV,EMG-700-S,EMG-700-S4M,EMG-700-Y,EMG-800,EMG-800-2,EMG-800-5,EMG-800-HV,EMG-800-SV,EMG-900,EMG-900-2M,EMG-900-3M,EMG-900-K4,EMG-900-K5,EMG-900-K6, EMG-900-K7,EMG-900M,EMG-900-M1,EMG-900-P2,EMG-900-P3,EMG-900-P4,EMG-900-SD,EMG-950-2M
Date of Sample Received :	04 May 2017
Testing Period :	04 May 2017 - 09 May 2017
Test Requested :	Selected test(s) as requested by client.

3rd Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Marry Ma

Marry Ma
Approved Signatory

3rd Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA17-089211.002	Black solid

Remarks :

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

Element(s)

Test Method : With reference to US EPA 3052:1996, analysis was performed by ICP-OES.

Test Item(s)	Unit	MDL	*002*
Antimony (Sb)	mg/kg	10	ND
Sb_2O_3 ◆	mg/kg	12	ND

Notes :

(1) ◆ Calculated concentration of Sb_2O_3 is based on the identified Sb

Halogen

Test Method : With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

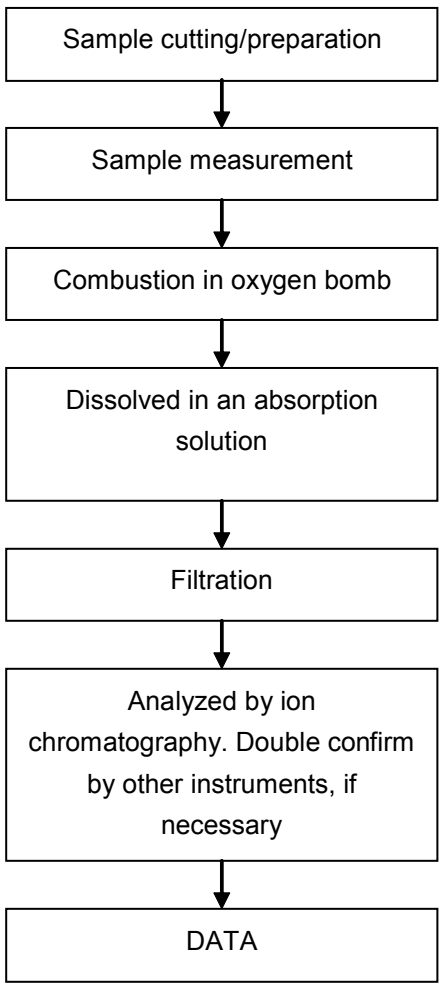
Test Item(s)	Unit	MDL	*002*
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	102
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

3rd Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com

ATTACHMENTS

Halogen Testing (oxygen bomb) Flow Chart

1) Name of the person who made testing: Kevin Xu
2) Name of the person in charge of testing: Sisily Yin

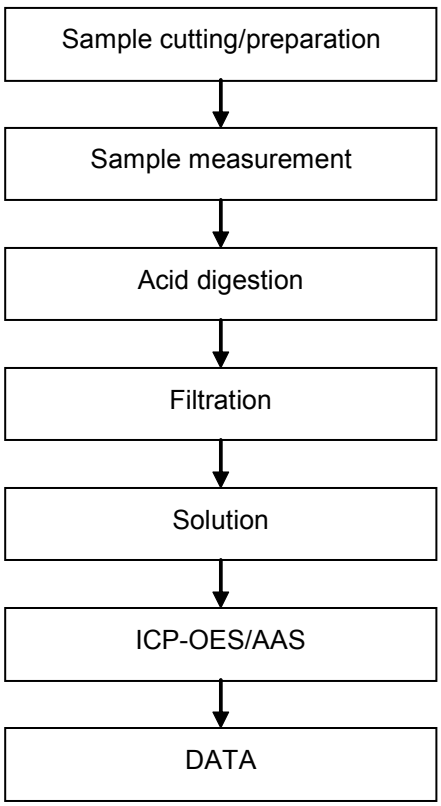


3/F,Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com

ATTACHMENTS

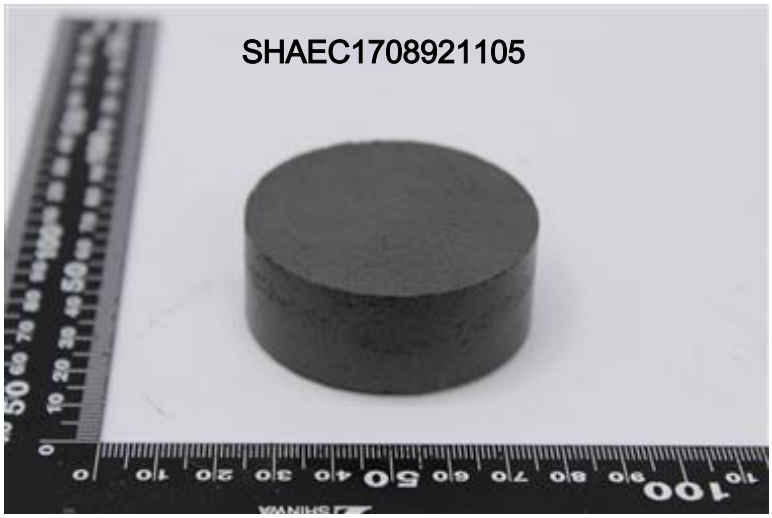
Elements Testing Flow Chart

1) Name of the person who made testing: Meria Jin/Sielina Song
2) Name of the person in charge of testing: Luna Xu/Jan Shi



3/F,Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com

Sample photo:



SHA17-089211.002

SGS authenticate the photo on original report only

*** End of Report ***

3/F,Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com

Jiangsu HHCK Advanced Materials Co., Ltd.

66 Eastern Avenue,Economic & Technical Development Zone,Lianyungang,Jiangsu, China

The following sample(s) was/were submitted and identified on behalf of the clients as : Epoxy molding compound

SGS Job No. :	SP17-015627 - SH
Model No. :	EMG
Client Ref. Information :	EMG-100,EMG-100-1,EMG-100-2,EMG-100-3,EMG-100-4,EMG-100-B,EMG-100-H,EMG-100-N,EMG-100-S1,EMG-100-2N,EMG-100-S,EMG-100-2S,EMG-120,EMG-120-1,EMG-120-1N,EMG-120-2N,EMG-120-2N1,EMG-120-2N2,EMG-120-1K,EMG-120-A,EMG-200,EMG-200-1,EMG-200-2,EMG-200-3,\ EMG-200-D,EMG-200-DJ,EMG-200-S,EMG-200-S1,EMG-200-TM,EMG-250-S,EMG-300,EMG-350,EMG-350-1,EMG-350-2M,EMG-350-H,EMG-350-M,EMG-350-S1,EMG-400,EMG-400-1,EMG-400-1A,EMG-400-2,EMG-400-2FF,EMG-400-2M2,EMG-400-5,EMG-400-5A,EMG-400-1F,EMG-400-1FF,EMG-400-1FY, EMG-400-C,EMG-400-FL,EMG-400-NXP,EMG-400-GM,EMG-400-HT,EMG-400-HV,EMG-400-S,EMG-400-S1,EMG-400SV,EMG-400SV-S,EMG-400SV-SS,EMG-400SV-1,EMG-400SV-1JD,EMG-400SV-2,EMG-400SV-4,EMG-400SV-6,EMG-400SV-J,EMG-400SV-ST,EMG-430,EMG-460,EMG-460-2,EMG-460-3, EMG-460-6,EMG-460-8,EMG-460-9,EMG-480-1,EMG-480-1T,EMG-480-2,EMG-480-3,EMG-480-4,EMG-480-5,EMG-480-HV,EMG-480-S,EMG-500,EMG-500-2,EMG-500-TW,EMG-550,EMG-550-H,EMG-600,EMG-600-1,EMG-600-2,EMG-600-2AH,EMG-600-2D,EMG-600-2G,EMG-600-2JD,EMG-600-2Y, EMG-600-3,EMG-600-5,EMG-600-5A,EMG-600-6,EMG-600-55M,EMG-600-L,EMG-600-LG,EMG-600-S,EMG-620-1,EMG-620-1T,EMG-620-2,EMG-620-3,EMG-620-T,EMG-630-HT,EMG-650-1,EMG-650-2,EMG-660-1,EMG-660-2,EMG-680-1,EMG-680-2,EMG-660,EMG-700,EMG-700-2,EMG-700-2H, EMG-700-2T,EMG-700-3,EMG-700-3H,EMG-700-D1,EMG-700-D3,EMG-700-F,EMG-700-N,EMG-700-N5M,EMG-700-HV,EMG-700-S,EMG-700-S4M,EMG-700-Y,EMG-800,EMG-800-2,EMG-800-5,EMG-800-HV,EMG-800-SV,EMG-900,EMG-900-2M,EMG-900-3M,EMG-900-K4,EMG-900-K5,EMG-900-K6, EMG-900-K7,EMG-900M,EMG-900-M1,EMG-900-P2,EMG-900-P3,EMG-900-P4,EMG-900-SD,EMG-950-2M
Date of Sample Received :	04 May 2017
Testing Period :	04 May 2017 - 09 May 2017
Test Requested :	Selected test(s) as requested by client.

3rd Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Marry Ma
Approved Signatory

3/F,Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA17-089211.002	Black solid

Remarks :

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
(3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
(4) With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis and/or with reference to IEC 62321-5:2013, determination of Chromium by ICP-OES.
(5) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.
(6) With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.

Test Item(s)	Limit	Unit	MDL	*002*
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND

3rd Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com

Test Item(s)	Limit	Unit	MDL	*002*
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
IEC 62321 series is equivalent to EN 62321 series
http://www.cenelec.eu/dyn/www/f?p=104:30:17422328703511101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(2) The result of Hexavalent Chromium (Cr(VI)) is deemed to be "ND" since the result of total chromium content is "ND", so testing of Hexavalent Chromium (Cr(VI)) is not required.

(3) If the Chromium (Cr) content is greater than the MDL of Hexavalent Chromium (Cr(VI)), confirmation test of Hexavalent Chromium (Cr(VI)) is required.

(4) On 4 June 2015, Commission Directive (EU) 2015/863 was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the Rohs Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.

(5) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

(6) The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.

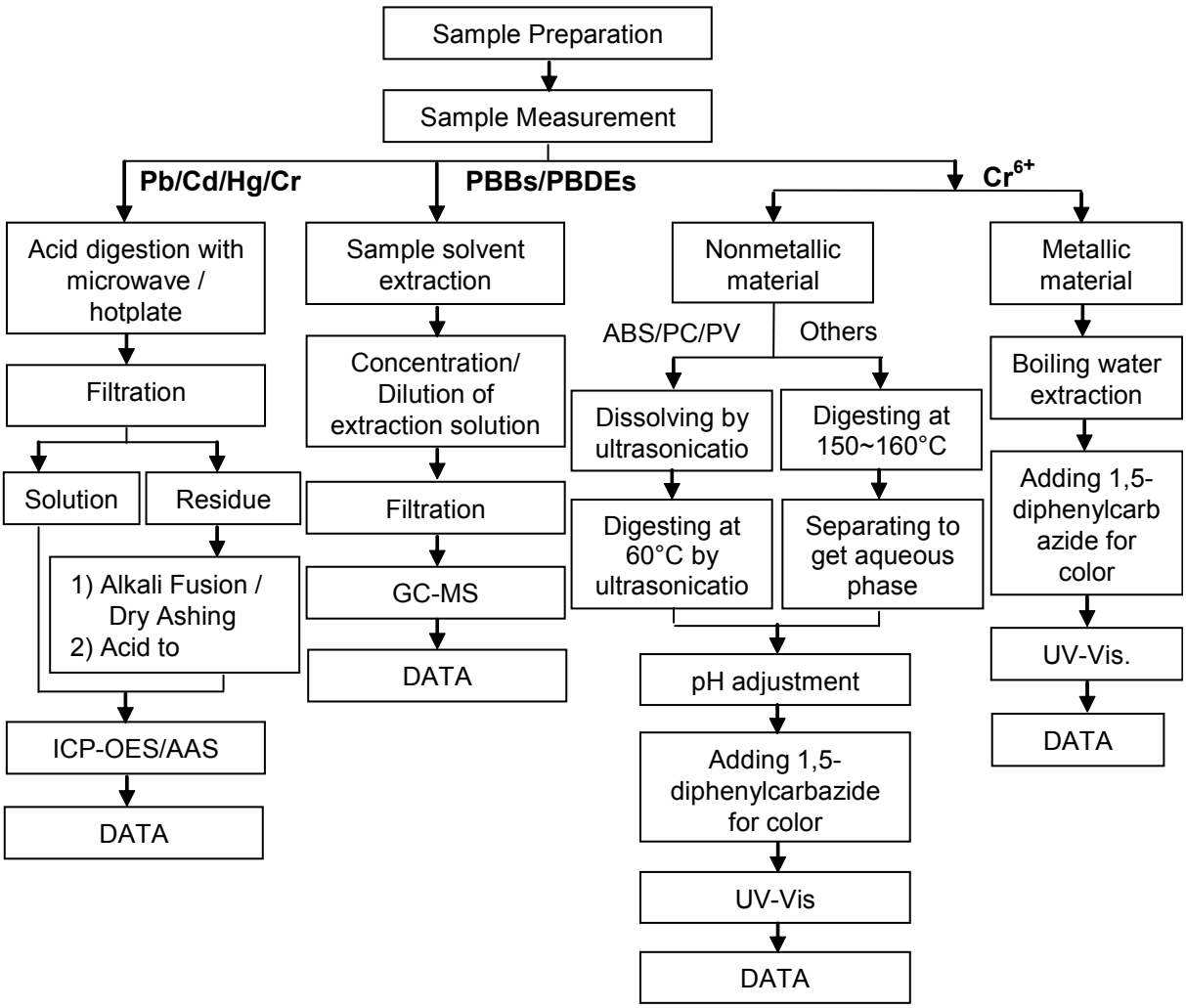
(7) The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

3rd Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com

ATTACHMENTS

RoHS Testing Flow Chart

1) Name of the person who made testing: Meria Jin/Gary Xu/Sean Li/Sielina Song
2) Name of the person in charge of testing: Jan Shi/Jessy Huang/Luna Xu/Shara Wang
3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} and PBBs/PBDEs test method excluded)

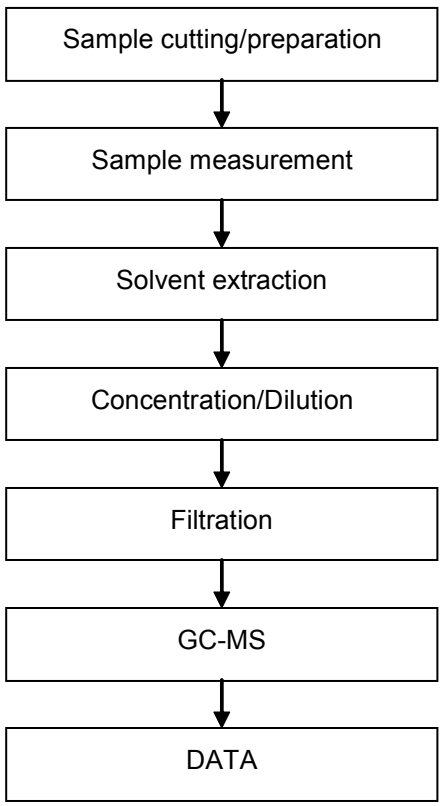


3/F,Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com

ATTACHMENTS

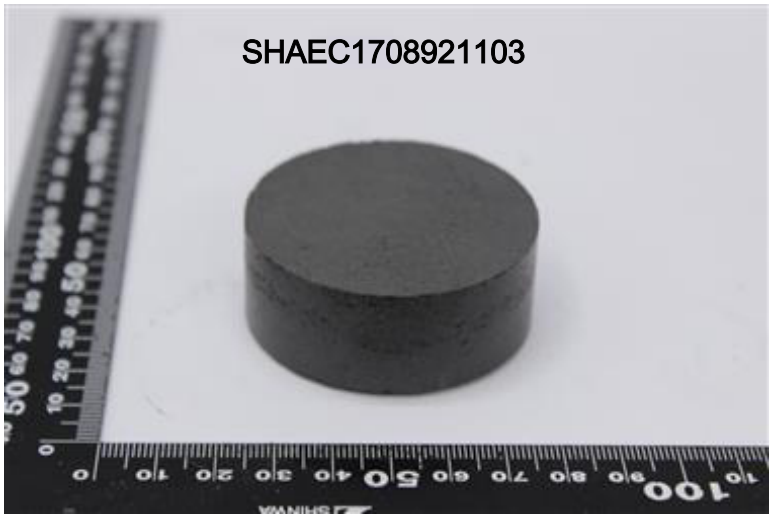
Phthalates Testing Flow Chart

1) Name of the person who made testing: Sherlock Gao
2) Name of the person in charge of testing: Jessy Huang



3rd Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com

Sample photo:



SHA17-089211.002

SGS authenticate the photo on original report only

*** End of Report ***

3/F,Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21)61156899 e sgs.china@sgs.com

SeCoS Corporation

Reliability Testing Summary Report

Date: 2017/05/12 Document No.: SK17 -05- 051

Test Item	P/N	Test Condition	(LTPD)	Sample Numbers	Allow Fall Numbers	Fall Numbers	Result
HTRB High Temp Reverse Bias	SM240AM-C	100℃ ± 5℃, 80%VR, T = 1000 hrs		77	0	0	ACC
HTSL High Temperature Storage Life	SM240AM-C	150℃, T = 1000 hrs		77	0	0	ACC
PCT Pressure Cooker Test	SM240AM-C	121℃, 29.7PSIG, 168 hrs		77	0	0	ACC
TCT Temperature Cycle Test	SM240AM-C	-55℃/30min, 150℃/30min, For 1000 Cycle		77	0	0	ACC
THT High Temperature High Humidity Test	SM240AM-C	85 ± 2℃, RH=85±5%, 1000 hrs		77	0	0	ACC
H3TRB High Temper High Humidity Reverse Bies Test	SM240AM-C	85 ± 2℃, RH=85±5%, 80%VR, 1000 hrs		77	0	0	ACC
Resistance to Solder Heat Test	SM240AM-C	270℃±5℃, 7Sec +2/-0Sec		77	0	0	ACC

Judgment:

■ **qualified** □ **unqualified**

Testing Start Date: 2017.03.20 Testing End Date: 2017.05.12

Tester: King Huang Approval: Peter Yang

SeCoS Corporation

High Temperature Reverse Bias Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 100 ± 5℃, 80%VR, T = 1000 hrs
Test Date: 2017.03.20 ~ 2017.05.02
Test Standard : JESD22 STANDARD Method-A108
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
1	492.5mV	46.94V	18.50uA	492.4mV	46.74V	19.00uA
2	493.2mV	47.87V	16.98uA	493.7mV	46.62V	20.71uA
3	489.8mV	46.83V	18.57uA	486.0mV	47.02V	17.30uA
4	490.4mV	47.19V	18.09uA	486.2mV	46.62V	19.66uA
5	489.5mV	47.82V	18.94uA	488.4mV	47.01V	16.96uA
6	494.7mV	47.57V	16.32uA	491.2mV	47.75V	16.92uA
7	489.2mV	47.43V	17.64uA	490.5mV	47.44V	18.46uA
8	489.1mV	47.06V	18.28uA	490.6mV	47.44V	17.68uA
9	486.4mV	47.18V	16.97uA	493.4mV	47.66V	21.08uA
10	486.5mV	47.52V	16.97uA	490.4mV	46.97V	16.37uA
11	494.8mV	46.75V	19.71uA	490.4mV	47.32V	16.91uA
12	487.6mV	46.59V	19.57uA	495.4mV	47.41V	19.90uA
13	489.2mV	47.10V	19.24uA	494.2mV	46.68V	19.22uA
14	494.8mV	47.33V	20.95uA	495.4mV	47.36V	18.31uA
15	492.9mV	46.71V	19.08uA	495.0mV	46.88V	18.96uA
16	491.5mV	47.33V	17.44uA	492.7mV	47.78V	18.78uA
17	489.4mV	46.69V	16.62uA	486.3mV	47.37V	18.61uA
18	491.8mV	46.77V	17.34uA	494.1mV	47.04V	21.12uA
19	495.0mV	47.85V	20.24uA	492.7mV	46.62V	18.10uA
20	493.9mV	46.71V	20.50uA	494.0mV	46.84V	17.77uA
21	494.1mV	47.34V	17.59uA	487.8mV	47.71V	18.20uA
22	491.9mV	47.84V	16.31uA	496.3mV	46.88V	16.41uA
23	489.7mV	47.76V	19.02uA	491.2mV	47.20V	17.42uA
24	492.2mV	46.70V	18.84uA	492.2mV	46.78V	20.37uA
25	493.2mV	46.69V	17.73uA	489.4mV	47.00V	16.49uA
26	486.7mV	47.19V	20.23uA	487.3mV	47.54V	17.35uA
27	496.3mV	46.85V	20.33uA	493.9mV	46.60V	19.44uA
28	491.5mV	47.27V	21.10uA	495.1mV	47.07V	16.84uA
29	493.1mV	46.81V	17.69uA	493.0mV	47.25V	19.83uA
30	493.5mV	47.53V	20.44uA	495.6mV	47.03V	16.21uA

SeCoS Corporation

High Temperature Reverse Bias Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 100 ± 5℃, 80%VR, T = 1000 hrs
Test Date: 2017.03.20 ~ 2017.05.02
Test Standard : JESD22 STANDARD Method-A108
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
31	488.3mV	46.94V	18.87uA	494.2mV	46.80V	17.60uA
32	487.3mV	47.36V	16.99uA	488.4mV	47.01V	19.26uA
33	486.1mV	47.34V	21.14uA	494.0mV	47.73V	17.21uA
34	486.4mV	47.20V	17.80uA	494.6mV	47.68V	20.82uA
35	488.1mV	47.65V	21.19uA	488.7mV	47.52V	20.50uA
36	486.4mV	47.56V	16.95uA	490.6mV	46.66V	16.38uA
37	488.9mV	46.94V	20.89uA	492.9mV	46.92V	18.02uA
38	494.0mV	46.68V	17.16uA	491.7mV	47.87V	19.10uA
39	495.0mV	46.98V	20.78uA	493.7mV	46.58V	17.44uA
40	491.0mV	47.36V	18.74uA	488.0mV	46.97V	19.48uA
41	492.8mV	47.51V	16.21uA	490.0mV	46.63V	16.86uA
42	494.0mV	46.62V	20.87uA	487.3mV	47.34V	20.27uA
43	487.8mV	47.68V	20.17uA	487.2mV	47.47V	19.18uA
44	492.9mV	47.02V	18.53uA	488.8mV	46.67V	18.68uA
45	490.8mV	46.76V	18.46uA	493.7mV	47.14V	20.84uA
46	491.4mV	47.78V	17.50uA	494.8mV	47.34V	20.60uA
47	491.3mV	47.25V	18.78uA	487.3mV	47.14V	20.98uA
48	487.8mV	46.68V	20.91uA	493.9mV	46.66V	17.84uA
49	486.2mV	46.87V	17.67uA	487.7mV	47.57V	21.00uA
50	488.9mV	47.85V	19.95uA	487.0mV	47.43V	20.74uA
51	487.0mV	47.35V	16.30uA	491.4mV	47.82V	16.19uA
52	492.2mV	47.48V	18.13uA	491.0mV	47.03V	18.80uA
53	491.9mV	46.88V	17.39uA	494.3mV	46.75V	19.37uA
54	494.0mV	47.78V	19.52uA	495.3mV	47.82V	19.14uA
55	493.9mV	47.69V	18.36uA	487.8mV	46.59V	16.81uA
56	492.1mV	47.17V	19.02uA	488.6mV	47.59V	19.03uA
57	490.1mV	47.09V	20.46uA	495.7mV	47.62V	19.99uA
58	491.6mV	46.86V	19.48uA	490.7mV	46.61V	18.27uA
59	492.7mV	47.56V	20.59uA	491.6mV	46.60V	21.11uA
60	490.5mV	47.83V	21.20uA	495.6mV	47.66V	18.81uA

SeCoS Corporation

High Temperature Reverse Bias Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 100 ± 5℃, 80%VR, T = 1000 hrs
Test Date: 2017.03.20 ~ 2017.05.02
Test Standard : JESD22 STANDARD Method-A108
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
61	496.2mV	47.83V	20.03uA	488.3mV	47.71V	19.67uA
62	496.0mV	46.97V	17.38uA	495.4mV	47.04V	20.18uA
63	488.0mV	47.44V	18.56uA	496.2mV	47.71V	19.81uA
64	489.6mV	47.53V	19.66uA	492.7mV	47.16V	20.97uA
65	494.5mV	47.61V	20.51uA	494.4mV	46.63V	16.29uA
66	494.9mV	46.93V	18.99uA	490.2mV	47.33V	17.38uA
67	487.7mV	46.81V	17.55uA	490.7mV	46.60V	19.37uA
68	494.1mV	47.10V	17.05uA	493.3mV	47.26V	20.36uA
69	487.7mV	46.92V	16.88uA	488.2mV	46.89V	20.66uA
70	489.5mV	47.39V	19.01uA	487.4mV	47.15V	18.19uA
71	491.0mV	46.99V	17.90uA	487.4mV	47.58V	17.17uA
72	490.2mV	46.93V	19.29uA	493.8mV	47.47V	17.45uA
73	493.7mV	47.32V	18.11uA	492.4mV	47.41V	17.50uA
74	492.0mV	47.56V	16.49uA	486.9mV	47.25V	20.86uA
75	490.2mV	47.08V	20.37uA	490.1mV	46.56V	16.75uA
76	494.7mV	47.78V	18.10uA	489.4mV	47.75V	19.90uA
77	494.8mV	46.69V	18.88uA	496.2mV	46.95V	16.28uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

High Temperature Storage Life Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 150℃, 1000Hrs
Test Date: 2017.03.20 ~ 2017.05.02
Test Standard : JESD22 STANDARD Method-A103
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
1	488.7mV	47.35V	20.40uA	489.2mV	47.28V	18.31uA
2	487.5mV	46.80V	20.93uA	486.2mV	47.06V	19.56uA
3	491.0mV	46.85V	18.66uA	493.9mV	47.70V	18.72uA
4	487.9mV	46.85V	16.45uA	493.0mV	46.62V	19.85uA
5	493.6mV	46.63V	17.54uA	486.1mV	47.48V	21.18uA
6	490.8mV	47.00V	19.12uA	486.4mV	47.74V	16.52uA
7	493.2mV	47.03V	19.48uA	490.4mV	47.37V	21.04uA
8	488.6mV	47.80V	16.66uA	493.6mV	47.40V	20.02uA
9	495.3mV	46.71V	17.45uA	492.2mV	47.79V	17.91uA
10	496.3mV	47.78V	16.87uA	489.6mV	46.76V	20.55uA
11	488.9mV	46.89V	20.36uA	486.6mV	47.40V	16.59uA
12	488.7mV	47.37V	16.27uA	488.0mV	47.36V	20.63uA
13	495.3mV	46.56V	19.57uA	488.6mV	46.83V	17.22uA
14	486.6mV	47.00V	20.14uA	487.6mV	47.86V	19.45uA
15	487.5mV	46.68V	20.49uA	494.1mV	47.44V	18.63uA
16	486.4mV	47.88V	18.74uA	494.1mV	47.87V	20.00uA
17	489.7mV	47.84V	17.22uA	492.4mV	46.93V	20.26uA
18	491.3mV	47.49V	17.01uA	491.7mV	47.19V	20.05uA
19	494.8mV	47.43V	19.56uA	494.8mV	47.09V	19.83uA
20	491.9mV	46.96V	16.66uA	488.9mV	46.78V	19.47uA
21	495.1mV	47.26V	18.82uA	492.6mV	46.70V	18.30uA
22	496.1mV	47.05V	16.38uA	487.8mV	46.71V	18.18uA
23	490.3mV	46.88V	20.55uA	491.3mV	47.48V	16.46uA
24	490.2mV	46.99V	17.95uA	488.5mV	47.01V	20.84uA
25	492.1mV	47.41V	20.34uA	492.9mV	47.20V	20.25uA
26	490.9mV	46.80V	18.56uA	488.2mV	47.56V	20.15uA
27	487.0mV	46.82V	16.64uA	488.2mV	47.28V	16.75uA
28	489.6mV	47.71V	21.19uA	489.1mV	46.60V	18.49uA
29	491.6mV	47.23V	20.65uA	493.3mV	46.84V	17.32uA
30	492.0mV	47.81V	18.31uA	489.1mV	46.66V	17.62uA

SeCoS Corporation

High Temperature Storage Life Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 150℃, 1000Hrs
Test Date: 2017.03.20 ~ 2017.05.02
Test Standard : JESD22 STANDARD Method-A103
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
31	487.8mV	47.30V	20.41uA	492.8mV	47.10V	17.00uA
32	492.3mV	47.16V	20.30uA	490.3mV	47.19V	19.24uA
33	489.0mV	47.15V	18.75uA	490.5mV	47.07V	19.22uA
34	489.8mV	46.56V	17.71uA	488.3mV	47.34V	17.48uA
35	487.6mV	47.33V	18.52uA	488.2mV	47.17V	19.58uA
36	487.2mV	46.56V	20.99uA	487.1mV	47.34V	20.87uA
37	487.3mV	46.75V	18.55uA	486.2mV	47.46V	19.14uA
38	494.0mV	46.93V	16.51uA	492.0mV	46.95V	19.31uA
39	488.7mV	47.45V	18.75uA	495.3mV	46.82V	20.96uA
40	495.2mV	46.89V	19.77uA	490.4mV	47.23V	16.66uA
41	488.5mV	47.41V	19.54uA	486.8mV	46.62V	18.41uA
42	492.7mV	46.62V	19.08uA	486.8mV	47.21V	19.14uA
43	493.6mV	47.36V	18.51uA	487.6mV	46.84V	16.83uA
44	489.1mV	47.23V	17.76uA	493.5mV	46.84V	18.03uA
45	491.5mV	47.56V	20.24uA	487.5mV	46.93V	20.63uA
46	488.9mV	46.86V	20.66uA	487.0mV	46.67V	17.42uA
47	494.8mV	47.14V	19.61uA	489.6mV	46.96V	18.18uA
48	494.2mV	47.28V	20.99uA	495.4mV	47.73V	20.09uA
49	492.8mV	46.58V	18.10uA	489.6mV	47.44V	17.03uA
50	487.9mV	47.63V	21.09uA	492.9mV	46.62V	18.91uA
51	491.9mV	46.58V	17.61uA	489.9mV	47.27V	18.31uA
52	493.5mV	46.93V	20.33uA	490.6mV	47.44V	18.89uA
53	494.1mV	47.51V	17.71uA	490.3mV	47.62V	18.69uA
54	493.6mV	46.56V	16.77uA	491.6mV	46.64V	19.02uA
55	486.6mV	46.74V	16.86uA	489.1mV	46.58V	17.19uA
56	496.1mV	47.67V	19.29uA	491.1mV	46.93V	19.19uA
57	487.7mV	46.99V	20.70uA	486.4mV	47.19V	17.34uA
58	492.6mV	46.58V	16.81uA	495.0mV	46.74V	18.26uA
59	495.4mV	47.11V	19.69uA	490.0mV	47.62V	17.43uA
60	494.0mV	46.85V	20.59uA	486.4mV	46.58V	21.19uA

SeCoS Corporation

High Temperature Storage Life Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 150℃, 1000Hrs
Test Date: 2017.03.20 ~ 2017.05.02
Test Standard : JESD22 STANDARD Method-A103
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
61	486.8mV	46.62V	20.80uA	491.4mV	47.85V	18.00uA
62	492.1mV	47.31V	21.19uA	486.0mV	47.66V	19.52uA
63	495.6mV	46.62V	16.48uA	493.6mV	46.77V	19.54uA
64	489.0mV	47.23V	20.76uA	492.5mV	47.01V	21.07uA
65	486.3mV	47.82V	16.43uA	491.5mV	47.28V	17.83uA
66	489.4mV	47.86V	17.77uA	495.4mV	47.58V	18.47uA
67	487.3mV	46.64V	18.75uA	493.1mV	47.75V	17.30uA
68	486.5mV	47.11V	16.29uA	488.3mV	47.77V	18.81uA
69	491.1mV	47.24V	18.19uA	490.4mV	47.66V	17.77uA
70	493.1mV	47.85V	17.37uA	489.5mV	46.60V	17.96uA
71	488.7mV	47.58V	18.50uA	495.6mV	47.72V	16.35uA
72	495.4mV	47.79V	17.85uA	487.1mV	47.78V	16.44uA
73	490.2mV	46.81V	17.64uA	494.5mV	47.05V	17.85uA
74	489.2mV	47.24V	20.94uA	493.7mV	47.71V	21.08uA
75	494.0mV	47.01V	16.56uA	487.8mV	47.16V	19.73uA
76	488.6mV	47.54V	17.17uA	487.3mV	47.03V	20.36uA
77	495.5mV	47.18V	19.17uA	491.2mV	46.92V	16.95uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

Pressure Cooker Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 121℃, 100%RH, 29.7PSIG, 168Hrs
Test Date: 2017.03.20 ~ 2017.03.28
Test Standard : JESD22 STANDARD Method-A102
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
1	487.7mV	47.66V	19.67uA	492.8mV	47.36V	18.32uA
2	488.2mV	47.50V	18.92uA	491.8mV	47.55V	17.20uA
3	486.2mV	46.93V	16.70uA	488.1mV	47.77V	20.46uA
4	493.5mV	47.17V	20.75uA	487.5mV	47.75V	17.30uA
5	489.0mV	47.03V	16.57uA	496.3mV	46.94V	20.10uA
6	494.3mV	47.35V	18.62uA	496.0mV	47.22V	20.26uA
7	488.5mV	47.15V	17.03uA	494.0mV	47.19V	17.61uA
8	491.8mV	47.21V	19.26uA	493.6mV	47.18V	18.63uA
9	487.4mV	47.62V	16.86uA	487.1mV	46.59V	16.96uA
10	486.6mV	47.67V	20.52uA	493.9mV	47.00V	20.30uA
11	487.3mV	47.74V	19.08uA	494.2mV	47.62V	20.62uA
12	490.4mV	47.80V	19.87uA	490.2mV	46.89V	20.30uA
13	494.3mV	47.61V	19.66uA	487.8mV	47.34V	16.96uA
14	494.2mV	47.60V	19.16uA	496.2mV	47.85V	17.81uA
15	488.0mV	47.85V	18.73uA	492.5mV	46.62V	20.94uA
16	486.0mV	46.57V	17.87uA	487.4mV	47.63V	17.12uA
17	489.2mV	47.27V	19.24uA	489.2mV	46.84V	20.72uA
18	494.2mV	47.69V	16.50uA	489.5mV	47.32V	20.56uA
19	492.8mV	46.58V	20.38uA	495.3mV	46.71V	17.93uA
20	486.5mV	46.97V	21.02uA	491.5mV	47.07V	18.26uA
21	487.7mV	47.37V	19.71uA	492.0mV	47.88V	20.17uA
22	486.5mV	46.97V	20.60uA	486.3mV	46.67V	16.88uA
23	494.7mV	47.46V	16.78uA	494.1mV	46.67V	17.60uA
24	490.6mV	46.74V	21.14uA	492.7mV	46.79V	19.21uA
25	492.7mV	47.36V	16.24uA	486.2mV	47.39V	16.85uA
26	487.5mV	47.78V	16.32uA	490.2mV	47.68V	17.26uA
27	488.2mV	47.40V	18.86uA	488.3mV	46.89V	20.67uA
28	492.9mV	46.58V	17.88uA	494.8mV	46.98V	19.49uA
29	492.2mV	47.19V	20.14uA	486.8mV	47.31V	19.49uA
30	490.3mV	46.83V	21.17uA	493.7mV	46.91V	20.06uA

SeCoS Corporation

Pressure Cooker Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 121℃, 100%RH, 29.7PSIG, 168Hrs
Test Date: 2017.03.20 ~ 2017.03.28
Test Standard : JESD22 STANDARD Method-A102
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
31	489.9mV	46.67V	18.45uA	486.5mV	47.39V	19.00uA
32	486.4mV	47.59V	18.62uA	495.6mV	47.55V	21.04uA
33	492.3mV	47.20V	17.67uA	493.4mV	46.72V	18.77uA
34	486.2mV	47.58V	20.98uA	493.8mV	47.58V	19.39uA
35	495.6mV	47.05V	16.97uA	490.7mV	46.63V	20.42uA
36	491.6mV	47.06V	16.29uA	488.7mV	46.84V	16.86uA
37	486.0mV	47.32V	18.83uA	494.2mV	46.83V	20.89uA
38	493.4mV	46.95V	16.34uA	496.1mV	46.69V	17.89uA
39	490.1mV	47.64V	20.13uA	495.6mV	47.67V	19.45uA
40	489.6mV	47.39V	19.48uA	491.9mV	47.42V	19.29uA
41	494.7mV	47.66V	19.59uA	489.7mV	47.42V	17.12uA
42	488.4mV	47.74V	19.75uA	488.4mV	47.70V	20.17uA
43	490.2mV	46.69V	19.87uA	495.6mV	47.71V	19.62uA
44	494.1mV	47.85V	17.55uA	492.4mV	47.52V	17.45uA
45	492.2mV	46.67V	21.04uA	491.4mV	47.75V	16.32uA
46	492.7mV	46.57V	17.35uA	495.1mV	47.12V	16.79uA
47	489.8mV	47.29V	20.02uA	495.0mV	46.63V	17.06uA
48	490.3mV	47.36V	16.60uA	494.2mV	46.57V	16.87uA
49	496.4mV	47.44V	16.46uA	491.0mV	47.47V	18.44uA
50	489.0mV	47.40V	20.94uA	495.2mV	46.86V	18.99uA
51	493.8mV	47.64V	20.26uA	488.5mV	47.17V	17.81uA
52	489.4mV	47.01V	19.45uA	488.8mV	46.88V	19.41uA
53	486.2mV	47.16V	19.78uA	495.9mV	46.62V	20.24uA
54	487.3mV	47.03V	18.69uA	487.8mV	47.67V	16.92uA
55	495.7mV	47.35V	19.45uA	492.6mV	47.09V	17.47uA
56	492.6mV	46.72V	16.36uA	488.0mV	46.91V	19.62uA
57	490.5mV	46.77V	18.95uA	492.0mV	47.11V	17.34uA
58	486.8mV	47.74V	18.72uA	490.2mV	47.69V	19.39uA
59	488.1mV	47.41V	20.19uA	491.4mV	47.56V	20.19uA
60	487.9mV	46.67V	20.31uA	492.0mV	47.82V	17.84uA

SeCoS Corporation

Pressure Cooker Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 121℃, 100%RH, 29.7PSIG, 168Hrs
Test Date: 2017.03.20 ~ 2017.03.28
Test Standard : JESD22 STANDARD Method-A102
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
61	492.7mV	46.91V	18.49uA	486.7mV	46.93V	17.64uA
62	491.6mV	46.93V	16.43uA	495.0mV	46.74V	18.98uA
63	488.5mV	47.33V	20.71uA	491.3mV	47.61V	20.35uA
64	492.7mV	47.11V	21.15uA	486.4mV	46.90V	18.63uA
65	487.6mV	47.69V	20.54uA	490.1mV	47.77V	18.57uA
66	493.8mV	46.77V	16.70uA	492.9mV	47.71V	17.45uA
67	494.4mV	47.49V	21.07uA	491.2mV	47.19V	20.85uA
68	489.9mV	47.65V	17.65uA	491.9mV	47.08V	20.72uA
69	493.2mV	47.20V	17.16uA	492.7mV	47.05V	16.36uA
70	487.0mV	46.73V	18.70uA	486.9mV	47.40V	20.15uA
71	493.4mV	47.05V	17.67uA	490.1mV	47.77V	16.45uA
72	493.0mV	47.25V	18.77uA	494.0mV	47.37V	16.99uA
73	495.3mV	47.58V	18.98uA	489.9mV	47.25V	16.75uA
74	486.6mV	47.83V	18.00uA	496.0mV	47.62V	16.76uA
75	488.8mV	46.61V	20.47uA	496.0mV	47.49V	19.47uA
76	494.1mV	46.67V	17.22uA	488.2mV	47.67V	16.46uA
77	491.6mV	47.02V	16.61uA	494.1mV	46.75V	16.48uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

Temperature Cycle Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: -55℃/30min, 150℃/30min, for1000 Cycle
Test Date: 2017.03.21 ~ 2017.05.12
Test Standard : JESD22 STANDARD Method-A104
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
1	490.3mV	47.76V	20.05uA	493.9mV	47.88V	19.66uA
2	493.0mV	46.71V	19.29uA	493.1mV	47.50V	21.04uA
3	493.2mV	46.93V	17.67uA	489.0mV	47.55V	16.86uA
4	488.7mV	46.65V	17.68uA	491.2mV	46.77V	20.57uA
5	487.0mV	47.77V	20.95uA	487.0mV	46.83V	17.53uA
6	487.7mV	47.43V	17.49uA	488.4mV	46.90V	18.90uA
7	494.1mV	47.43V	20.52uA	492.8mV	47.55V	17.57uA
8	495.4mV	46.79V	16.82uA	487.0mV	46.85V	16.48uA
9	494.3mV	46.79V	21.00uA	491.9mV	47.61V	17.10uA
10	486.6mV	47.26V	16.43uA	495.8mV	47.85V	18.69uA
11	488.5mV	47.20V	20.76uA	494.4mV	47.15V	17.00uA
12	494.8mV	47.28V	19.71uA	487.4mV	46.60V	17.72uA
13	486.3mV	46.64V	21.03uA	489.5mV	46.90V	20.08uA
14	493.6mV	47.19V	16.68uA	486.2mV	47.15V	18.09uA
15	487.6mV	47.22V	17.07uA	493.1mV	47.85V	20.91uA
16	491.7mV	47.55V	20.96uA	496.1mV	46.57V	16.50uA
17	494.4mV	47.66V	16.69uA	487.4mV	46.59V	19.01uA
18	491.8mV	46.72V	20.28uA	491.3mV	47.10V	18.51uA
19	493.0mV	46.98V	17.56uA	488.4mV	46.60V	17.32uA
20	490.7mV	47.59V	21.17uA	490.4mV	47.80V	17.60uA
21	495.6mV	47.39V	19.02uA	493.5mV	47.25V	18.87uA
22	494.7mV	47.59V	17.36uA	490.6mV	47.73V	19.92uA
23	496.1mV	46.56V	16.74uA	495.1mV	46.87V	20.41uA
24	488.9mV	47.38V	19.56uA	496.3mV	46.79V	16.50uA
25	490.2mV	46.59V	19.01uA	488.9mV	47.18V	16.65uA
26	487.9mV	47.44V	20.16uA	492.1mV	47.55V	17.56uA
27	492.2mV	47.08V	18.52uA	489.2mV	47.01V	18.42uA
28	492.0mV	47.82V	16.21uA	489.9mV	46.91V	17.03uA
29	487.8mV	47.20V	17.84uA	487.3mV	47.54V	16.69uA
30	492.6mV	47.03V	20.30uA	488.8mV	46.81V	20.32uA

SeCoS Corporation

Temperature Cycle Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: -55℃/30min, 150℃/30min, for1000 Cycle
Test Date: 2017.03.21 ~ 2017.05.12
Test Standard : JESD22 STANDARD Method-A104
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
31	491.9mV	47.34V	20.13uA	491.1mV	46.94V	17.81uA
32	488.6mV	47.00V	17.46uA	492.7mV	47.56V	17.77uA
33	495.5mV	47.15V	20.90uA	488.9mV	47.04V	17.16uA
34	492.8mV	47.42V	17.47uA	496.3mV	46.60V	17.66uA
35	491.8mV	47.67V	20.27uA	490.4mV	47.50V	16.77uA
36	492.3mV	47.55V	18.57uA	495.9mV	47.37V	18.64uA
37	492.0mV	46.79V	18.21uA	487.6mV	47.48V	19.50uA
38	488.2mV	47.00V	20.75uA	489.9mV	46.73V	16.72uA
39	495.3mV	46.65V	18.24uA	490.9mV	46.76V	17.87uA
40	487.2mV	47.74V	17.65uA	486.9mV	47.40V	18.10uA
41	492.6mV	47.52V	20.94uA	493.9mV	46.90V	16.19uA
42	491.5mV	46.63V	17.26uA	491.5mV	46.71V	16.43uA
43	494.1mV	46.59V	18.78uA	495.1mV	46.91V	20.59uA
44	487.8mV	47.82V	21.12uA	494.2mV	47.78V	17.90uA
45	494.3mV	47.06V	19.42uA	487.0mV	47.50V	18.48uA
46	489.1mV	46.98V	16.57uA	490.5mV	47.84V	19.53uA
47	486.3mV	47.42V	19.31uA	489.8mV	46.83V	20.10uA
48	489.5mV	47.81V	19.60uA	491.0mV	47.23V	21.06uA
49	492.1mV	47.67V	18.75uA	493.9mV	47.52V	20.30uA
50	492.1mV	46.92V	16.92uA	495.4mV	46.72V	17.33uA
51	486.3mV	46.58V	20.96uA	495.4mV	47.21V	18.68uA
52	492.0mV	47.67V	19.80uA	492.8mV	47.65V	20.40uA
53	489.5mV	47.53V	17.78uA	487.8mV	47.11V	18.53uA
54	493.7mV	47.81V	16.83uA	492.5mV	47.47V	20.61uA
55	496.4mV	47.44V	16.68uA	495.5mV	46.87V	17.85uA
56	496.3mV	47.04V	18.26uA	486.4mV	47.02V	17.04uA
57	493.6mV	47.62V	20.86uA	493.5mV	47.36V	16.86uA
58	492.7mV	47.74V	17.79uA	492.4mV	47.07V	21.05uA
59	494.4mV	47.60V	18.61uA	489.9mV	47.77V	16.41uA
60	495.0mV	46.57V	18.26uA	491.4mV	47.75V	16.35uA

SeCoS Corporation

Temperature Cycle Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: -55℃/30min, 150℃/30min, for1000 Cycle
Test Date: 2017.03.21 ~ 2017.05.12
Test Standard : JESD22 STANDARD Method-A104
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
61	487.8mV	47.83V	18.06uA	493.0mV	46.70V	19.34uA
62	489.2mV	47.48V	19.38uA	494.8mV	46.94V	16.22uA
63	493.5mV	47.26V	16.47uA	490.0mV	47.39V	17.79uA
64	493.4mV	47.40V	19.90uA	494.4mV	47.74V	18.89uA
65	489.5mV	47.37V	17.82uA	490.5mV	46.89V	19.85uA
66	488.4mV	47.61V	19.47uA	496.3mV	47.05V	19.75uA
67	492.2mV	47.85V	18.07uA	487.1mV	47.51V	18.99uA
68	492.0mV	46.93V	16.21uA	492.4mV	46.77V	18.94uA
69	493.6mV	46.56V	16.30uA	492.4mV	47.60V	18.70uA
70	488.3mV	47.40V	17.99uA	494.1mV	46.56V	18.78uA
71	490.5mV	46.60V	17.39uA	495.9mV	47.70V	19.82uA
72	487.9mV	46.85V	20.19uA	495.1mV	47.82V	17.27uA
73	491.8mV	47.86V	16.34uA	487.2mV	47.32V	19.56uA
74	487.7mV	46.63V	21.17uA	489.6mV	47.53V	20.03uA
75	494.8mV	47.30V	20.46uA	487.3mV	47.31V	17.54uA
76	487.0mV	46.59V	18.80uA	493.1mV	47.61V	19.16uA
77	496.3mV	47.11V	17.12uA	488.0mV	46.72V	20.89uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

High Temperature High Humidity Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 85±2℃, 85±5%RH, 1000Hrs
Test Date: 2017.03.28 ~ 2017.05.10
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
1	494.8mV	47.50V	17.39uA	494.0mV	47.60V	20.29uA
2	492.0mV	46.80V	18.37uA	489.8mV	46.84V	20.58uA
3	486.2mV	46.76V	17.42uA	489.7mV	46.56V	17.37uA
4	486.6mV	47.79V	16.73uA	492.9mV	47.38V	21.18uA
5	494.9mV	47.29V	19.44uA	493.7mV	46.93V	20.33uA
6	492.8mV	46.88V	16.90uA	488.0mV	47.53V	17.73uA
7	488.4mV	46.57V	17.58uA	489.1mV	46.59V	20.41uA
8	488.3mV	47.23V	21.18uA	493.5mV	47.85V	20.34uA
9	492.0mV	47.38V	20.90uA	490.0mV	47.18V	19.95uA
10	496.2mV	47.75V	19.77uA	491.4mV	47.19V	20.50uA
11	486.3mV	46.98V	18.57uA	492.7mV	47.23V	19.78uA
12	491.2mV	47.19V	20.29uA	494.6mV	47.72V	20.38uA
13	486.7mV	46.91V	18.54uA	495.9mV	47.70V	19.66uA
14	495.4mV	47.69V	21.13uA	489.4mV	47.16V	20.16uA
15	492.6mV	47.54V	17.86uA	496.2mV	47.65V	17.89uA
16	487.9mV	47.22V	18.87uA	486.8mV	47.03V	20.09uA
17	491.9mV	47.38V	20.31uA	496.3mV	47.31V	17.20uA
18	492.4mV	47.15V	20.20uA	496.3mV	47.50V	18.39uA
19	496.1mV	46.68V	20.63uA	494.9mV	47.37V	18.62uA
20	493.4mV	46.87V	17.99uA	493.9mV	47.70V	16.80uA
21	495.7mV	47.68V	18.68uA	491.4mV	47.19V	19.93uA
22	490.5mV	46.66V	19.95uA	491.4mV	47.08V	16.75uA
23	493.3mV	47.45V	16.64uA	487.1mV	46.57V	17.83uA
24	489.0mV	47.10V	16.91uA	492.5mV	46.81V	20.87uA
25	487.4mV	47.60V	21.12uA	493.5mV	46.56V	17.27uA
26	490.1mV	47.53V	18.93uA	489.8mV	46.83V	20.28uA
27	490.4mV	47.40V	18.54uA	495.5mV	47.81V	17.96uA
28	494.3mV	47.27V	16.69uA	486.4mV	47.67V	20.55uA
29	489.4mV	47.29V	17.81uA	490.5mV	47.76V	19.37uA
30	494.3mV	47.64V	16.34uA	491.5mV	47.44V	18.13uA

SeCoS Corporation

High Temperature High Humidity Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 85±2℃, 85±5%RH, 1000Hrs
Test Date: 2017.03.28 ~ 2017.05.10
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
31	491.5mV	47.86V	20.67uA	490.1mV	47.61V	18.34uA
32	487.4mV	47.01V	17.62uA	493.6mV	47.49V	16.62uA
33	494.8mV	47.04V	19.47uA	492.3mV	47.37V	21.04uA
34	491.7mV	47.00V	17.28uA	490.5mV	47.74V	17.22uA
35	491.7mV	46.56V	17.68uA	494.8mV	47.75V	18.89uA
36	495.6mV	46.75V	17.58uA	486.3mV	46.87V	18.10uA
37	486.5mV	46.64V	17.66uA	492.0mV	47.47V	20.67uA
38	489.6mV	46.91V	17.41uA	490.4mV	47.64V	18.38uA
39	491.3mV	46.65V	20.88uA	490.9mV	47.80V	17.68uA
40	489.2mV	47.40V	18.24uA	494.0mV	47.76V	17.13uA
41	489.9mV	47.01V	18.28uA	487.1mV	46.59V	16.42uA
42	495.5mV	47.82V	18.22uA	487.5mV	46.61V	19.63uA
43	490.8mV	46.97V	16.77uA	494.2mV	46.83V	17.47uA
44	489.9mV	47.15V	18.98uA	492.7mV	46.95V	18.87uA
45	489.0mV	46.67V	16.52uA	487.0mV	47.53V	17.85uA
46	494.3mV	47.79V	16.67uA	489.3mV	47.49V	18.02uA
47	492.1mV	46.63V	16.90uA	489.3mV	47.48V	16.92uA
48	495.3mV	46.95V	19.20uA	488.3mV	47.08V	16.63uA
49	491.1mV	47.54V	18.54uA	491.1mV	47.53V	20.15uA
50	486.9mV	47.63V	16.67uA	493.0mV	47.72V	19.03uA
51	491.3mV	47.56V	20.94uA	495.8mV	47.85V	19.50uA
52	496.1mV	47.71V	18.61uA	488.2mV	47.78V	20.38uA
53	490.0mV	47.71V	17.93uA	489.1mV	47.12V	20.85uA
54	495.6mV	46.72V	21.15uA	488.9mV	46.87V	17.65uA
55	487.7mV	47.42V	16.51uA	496.4mV	47.55V	19.25uA
56	493.8mV	47.16V	17.99uA	489.7mV	47.75V	17.97uA
57	492.5mV	47.08V	16.64uA	492.1mV	47.86V	19.75uA
58	493.6mV	47.45V	16.78uA	491.6mV	46.57V	19.43uA
59	493.9mV	47.33V	16.53uA	494.9mV	47.76V	17.77uA
60	486.2mV	46.64V	19.75uA	494.3mV	46.86V	18.39uA

SeCoS Corporation

High Temperature High Humidity Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 85±2℃, 85±5%RH, 1000Hrs
Test Date: 2017.03.28 ~ 2017.05.10
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
61	494.1mV	47.10V	16.60uA	493.9mV	47.33V	18.38uA
62	494.2mV	47.03V	18.47uA	492.1mV	46.99V	20.98uA
63	493.7mV	47.14V	17.68uA	489.9mV	47.10V	19.97uA
64	488.0mV	46.71V	18.76uA	487.8mV	47.52V	21.13uA
65	493.9mV	47.61V	16.19uA	491.2mV	47.42V	19.14uA
66	496.4mV	47.85V	18.44uA	487.1mV	47.22V	17.44uA
67	491.5mV	47.29V	18.25uA	491.0mV	47.14V	20.92uA
68	492.6mV	47.28V	20.25uA	494.7mV	47.44V	18.06uA
69	488.7mV	46.73V	17.88uA	486.3mV	46.93V	19.35uA
70	490.3mV	47.50V	18.82uA	487.8mV	47.54V	17.46uA
71	489.1mV	47.08V	18.77uA	489.5mV	47.57V	18.56uA
72	489.6mV	47.12V	18.33uA	487.0mV	46.66V	17.46uA
73	492.4mV	47.51V	20.44uA	490.2mV	46.94V	20.11uA
74	495.2mV	47.51V	18.95uA	487.5mV	47.27V	16.43uA
75	493.7mV	47.43V	19.48uA	496.0mV	47.53V	17.72uA
76	493.6mV	46.58V	16.64uA	495.5mV	46.76V	17.39uA
77	491.6mV	47.73V	17.37uA	491.8mV	46.75V	17.31uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

High Temper High Humidity Reverse Bies Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 85±2℃, 85±5%RH, 80%VR, 1000Hrs
Test Date: 2017.03.28 ~ 2017.05.10
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
1	487.6mV	47.20V	18.45uA	488.4mV	47.27V	16.22uA
2	495.8mV	47.28V	20.42uA	491.3mV	46.63V	18.52uA
3	492.7mV	47.54V	17.05uA	488.9mV	47.38V	18.03uA
4	491.2mV	47.28V	16.24uA	492.1mV	46.94V	18.31uA
5	489.1mV	47.29V	19.06uA	495.3mV	47.02V	17.62uA
6	487.4mV	46.80V	17.75uA	490.3mV	46.84V	16.31uA
7	491.4mV	47.50V	18.30uA	495.5mV	47.10V	17.81uA
8	488.9mV	47.59V	16.53uA	491.6mV	47.30V	18.78uA
9	489.7mV	47.66V	19.16uA	487.9mV	47.64V	21.09uA
10	492.6mV	47.41V	17.01uA	486.1mV	46.99V	16.24uA
11	488.6mV	46.91V	17.97uA	496.3mV	47.71V	16.73uA
12	495.6mV	47.32V	17.17uA	495.7mV	47.59V	19.14uA
13	496.2mV	46.90V	18.18uA	491.9mV	47.15V	20.98uA
14	496.1mV	47.79V	18.08uA	491.3mV	47.85V	18.07uA
15	487.2mV	47.53V	16.89uA	489.0mV	47.65V	20.39uA
16	495.3mV	46.76V	18.84uA	491.6mV	47.07V	17.39uA
17	495.0mV	46.70V	17.66uA	491.3mV	46.87V	16.19uA
18	489.4mV	46.56V	18.40uA	490.1mV	47.20V	17.32uA
19	494.8mV	46.86V	19.61uA	487.7mV	47.25V	18.43uA
20	495.4mV	47.24V	19.07uA	489.8mV	47.71V	18.50uA
21	495.2mV	47.02V	20.45uA	486.9mV	47.51V	18.03uA
22	492.1mV	47.43V	19.15uA	495.2mV	46.89V	16.97uA
23	492.9mV	46.71V	20.72uA	487.3mV	46.97V	18.15uA
24	488.8mV	47.38V	17.05uA	490.0mV	46.72V	18.37uA
25	488.7mV	47.39V	18.36uA	489.1mV	47.15V	20.21uA
26	486.3mV	47.78V	19.31uA	489.2mV	47.17V	19.05uA
27	493.8mV	46.70V	18.85uA	490.8mV	47.44V	16.78uA
28	495.3mV	47.13V	21.01uA	489.7mV	46.68V	18.69uA
29	495.0mV	46.86V	17.70uA	489.6mV	47.72V	19.97uA
30	488.6mV	47.88V	21.02uA	487.1mV	47.08V	17.41uA

SeCoS Corporation

High Temper High Humidity Reverse Bies Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 85±2℃, 85±5%RH, 80%VR, 1000Hrs
Test Date: 2017.03.28 ~ 2017.05.10
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
31	488.3mV	47.06V	17.93uA	487.6mV	47.63V	20.28uA
32	495.4mV	47.30V	19.48uA	489.0mV	47.24V	17.05uA
33	490.4mV	47.58V	18.71uA	496.3mV	47.82V	19.21uA
34	489.0mV	46.75V	16.48uA	488.7mV	46.98V	18.99uA
35	495.5mV	47.32V	19.61uA	492.0mV	47.44V	20.16uA
36	496.1mV	47.24V	17.97uA	489.9mV	47.56V	20.19uA
37	490.8mV	47.17V	19.75uA	491.8mV	47.00V	19.97uA
38	490.3mV	47.19V	19.09uA	487.9mV	47.44V	16.64uA
39	493.7mV	46.57V	18.37uA	487.1mV	47.43V	17.99uA
40	487.0mV	47.59V	20.92uA	490.0mV	46.69V	19.73uA
41	488.3mV	47.37V	19.05uA	487.0mV	46.73V	17.18uA
42	496.2mV	46.83V	16.76uA	493.3mV	47.16V	20.27uA
43	486.6mV	46.81V	17.13uA	494.0mV	47.84V	19.23uA
44	489.0mV	47.69V	18.18uA	496.3mV	47.07V	18.01uA
45	494.8mV	47.46V	16.45uA	496.0mV	47.47V	17.87uA
46	495.2mV	47.24V	20.60uA	492.3mV	47.82V	19.61uA
47	486.8mV	47.25V	19.12uA	487.4mV	47.06V	20.99uA
48	493.1mV	47.30V	17.27uA	488.0mV	46.67V	19.04uA
49	486.8mV	47.57V	16.29uA	488.1mV	47.73V	18.37uA
50	492.9mV	46.98V	19.85uA	488.3mV	47.40V	16.83uA
51	493.8mV	47.16V	20.27uA	488.4mV	47.38V	20.71uA
52	489.6mV	46.94V	18.83uA	491.5mV	46.65V	19.09uA
53	488.9mV	46.77V	19.44uA	486.8mV	47.32V	17.02uA
54	491.5mV	47.76V	19.95uA	490.9mV	47.07V	17.56uA
55	491.8mV	47.67V	19.21uA	492.6mV	47.42V	18.67uA
56	495.4mV	47.56V	17.56uA	494.9mV	47.31V	16.84uA
57	496.1mV	47.76V	18.90uA	489.2mV	46.72V	18.86uA
58	495.2mV	47.46V	17.58uA	487.9mV	46.62V	16.38uA
59	489.8mV	47.73V	17.05uA	489.6mV	47.69V	18.53uA
60	494.8mV	46.80V	18.06uA	492.9mV	47.42V	19.05uA

SeCoS Corporation

High Temper High Humidity Reverse Bies Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 85±2℃, 85±5%RH, 80%VR, 1000Hrs
Test Date: 2017.03.28 ~ 2017.05.10
Test Standard : JESD22 STANDARD Method-A101
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
61	489.4mV	47.52V	18.44uA	487.7mV	46.70V	16.75uA
62	489.5mV	46.95V	21.11uA	489.5mV	46.93V	19.04uA
63	494.3mV	47.40V	20.66uA	491.7mV	47.24V	20.46uA
64	490.4mV	47.55V	17.05uA	487.7mV	46.64V	18.59uA
65	487.3mV	47.75V	16.69uA	491.1mV	47.62V	19.80uA
66	493.7mV	46.71V	20.72uA	492.2mV	47.08V	16.33uA
67	491.2mV	46.99V	18.92uA	490.8mV	47.65V	16.38uA
68	496.0mV	46.94V	18.07uA	493.9mV	47.74V	18.99uA
69	488.1mV	47.54V	19.83uA	493.3mV	47.69V	19.49uA
70	491.8mV	47.54V	18.87uA	489.2mV	46.85V	21.07uA
71	489.7mV	47.30V	20.87uA	496.4mV	47.67V	16.70uA
72	490.9mV	46.68V	19.06uA	488.1mV	46.91V	16.62uA
73	495.1mV	46.95V	20.52uA	491.0mV	47.78V	20.15uA
74	489.9mV	46.62V	20.26uA	493.9mV	47.34V	20.62uA
75	492.4mV	47.55V	20.06uA	495.4mV	46.59V	21.06uA
76	495.0mV	47.13V	17.10uA	486.1mV	47.27V	17.29uA
77	490.0mV	47.20V	20.79uA	488.5mV	47.25V	17.93uA

Made By: King Huang

Approval: Peter Yang

SeCoS Corporation

Resistance to Solder Heat Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 270℃ ± 5℃, 7Sec + 2Sec/-0Sec
Test Date: 2017.05.12
Test Standard : JESD22 STANDARD Method-B106
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
1	494.4mV	47.61V	19.88uA	491.1mV	47.55V	19.20uA
2	494.5mV	47.79V	19.00uA	489.8mV	47.67V	19.75uA
3	489.7mV	47.39V	20.69uA	486.5mV	47.06V	17.58uA
4	489.5mV	47.31V	16.95uA	494.9mV	47.22V	19.85uA
5	492.9mV	47.55V	18.96uA	489.5mV	47.28V	16.92uA
6	494.4mV	47.10V	16.55uA	491.9mV	46.77V	16.80uA
7	492.8mV	47.00V	18.17uA	493.9mV	47.31V	19.95uA
8	491.8mV	47.53V	19.95uA	487.6mV	47.65V	19.51uA
9	489.4mV	47.61V	18.72uA	495.2mV	47.43V	17.50uA
10	491.5mV	46.90V	20.71uA	490.2mV	47.33V	17.70uA
11	491.5mV	46.81V	20.88uA	487.3mV	47.10V	19.60uA
12	491.8mV	47.49V	17.57uA	490.9mV	47.65V	17.42uA
13	489.0mV	46.96V	20.23uA	493.1mV	47.83V	16.45uA
14	493.0mV	47.04V	19.37uA	491.6mV	46.76V	17.58uA
15	493.2mV	47.42V	18.80uA	488.1mV	47.66V	18.68uA
16	487.6mV	47.09V	17.07uA	489.9mV	47.70V	18.16uA
17	492.7mV	46.82V	18.64uA	490.6mV	47.69V	20.08uA
18	496.0mV	46.96V	19.55uA	487.7mV	46.66V	17.49uA
19	495.9mV	47.12V	19.40uA	492.1mV	47.62V	18.89uA
20	489.8mV	46.68V	16.55uA	491.6mV	47.62V	20.21uA
21	493.3mV	47.33V	18.92uA	486.3mV	47.74V	20.51uA
22	489.7mV	47.65V	18.63uA	492.0mV	47.47V	20.52uA
23	492.4mV	47.51V	17.23uA	489.5mV	47.10V	20.39uA
24	492.7mV	47.58V	16.96uA	494.0mV	47.37V	17.13uA
25	496.3mV	47.33V	18.52uA	487.2mV	47.26V	16.23uA
26	493.4mV	47.40V	19.94uA	489.6mV	47.77V	20.18uA
27	494.7mV	47.02V	18.82uA	491.9mV	46.96V	17.72uA
28	491.5mV	47.67V	18.15uA	490.7mV	47.39V	21.18uA
29	486.6mV	47.70V	19.11uA	489.2mV	46.83V	16.60uA
30	489.1mV	47.19V	17.10uA	486.5mV	47.06V	20.30uA

SeCoS Corporation

Resistance to Solder Heat Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 270℃ ± 5℃, 7Sec + 2Sec/-0Sec
Test Date: 2017.05.12
Test Standard : JESD22 STANDARD Method-B106
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
31	492.6mV	47.80V	16.31uA	494.1mV	46.67V	19.81uA
32	490.5mV	47.35V	17.08uA	493.2mV	46.63V	21.01uA
33	487.0mV	47.72V	21.07uA	487.9mV	47.85V	19.34uA
34	496.2mV	47.79V	20.07uA	495.7mV	47.18V	20.14uA
35	490.5mV	46.89V	20.02uA	490.0mV	47.06V	16.52uA
36	489.9mV	47.30V	17.90uA	487.9mV	47.45V	18.10uA
37	491.1mV	47.07V	18.41uA	487.1mV	47.49V	18.30uA
38	489.4mV	47.20V	16.79uA	494.4mV	47.29V	17.27uA
39	495.8mV	47.52V	19.21uA	495.6mV	47.67V	17.08uA
40	486.0mV	47.32V	17.81uA	491.6mV	47.40V	17.50uA
41	491.1mV	47.55V	16.74uA	493.5mV	47.42V	17.81uA
42	496.3mV	46.56V	16.22uA	486.6mV	47.12V	19.67uA
43	489.5mV	46.99V	18.47uA	488.2mV	46.83V	20.49uA
44	489.9mV	47.67V	19.47uA	495.1mV	46.96V	18.27uA
45	492.8mV	47.03V	16.64uA	492.4mV	47.05V	20.20uA
46	494.0mV	47.19V	20.57uA	494.2mV	47.73V	18.36uA
47	487.0mV	47.84V	18.61uA	493.2mV	47.48V	20.56uA
48	496.0mV	47.19V	19.28uA	490.1mV	46.81V	20.55uA
49	488.1mV	46.90V	21.10uA	496.3mV	47.50V	16.94uA
50	486.1mV	47.19V	21.08uA	494.6mV	47.71V	18.08uA
51	490.2mV	47.86V	16.68uA	495.9mV	47.49V	19.67uA
52	486.2mV	47.54V	17.57uA	487.7mV	47.17V	17.51uA
53	495.8mV	46.57V	18.17uA	486.2mV	47.83V	20.84uA
54	491.3mV	47.54V	17.99uA	491.5mV	47.82V	20.93uA
55	486.8mV	46.64V	17.22uA	494.0mV	47.58V	17.41uA
56	496.2mV	47.34V	19.32uA	494.1mV	46.74V	20.57uA
57	491.8mV	47.75V	18.49uA	491.1mV	47.04V	18.29uA
58	494.6mV	47.70V	20.08uA	490.4mV	47.52V	17.17uA
59	490.6mV	47.50V	18.12uA	494.1mV	46.90V	16.52uA
60	494.8mV	46.75V	19.61uA	490.1mV	47.14V	18.40uA

SeCoS Corporation

Resistance to Solder Heat Test Data

Report No : T170512-051
Part No : SM240AM-C
Test Equipment: JUNO Test System DTS-1000
Test Condition : VF<550mV@IF=1A, VB>40V@IR=1mA, IR<500uA@VR=40V
Test Condition: 270℃ ± 5℃, 7Sec + 2Sec/-0Sec
Test Date: 2017.05.12
Test Standard : JESD22 STANDARD Method-B106
Operator: Leo Hsia

Test Result: PASS

	Before			After		
No	VF	VB	IR	VF	VB	IR
61	495.9mV	47.06V	19.26uA	490.8mV	46.86V	16.84uA
62	493.6mV	46.95V	19.33uA	495.3mV	47.56V	19.79uA
63	494.7mV	46.58V	16.53uA	489.8mV	47.47V	18.84uA
64	491.4mV	46.87V	19.01uA	495.2mV	46.56V	19.99uA
65	489.6mV	47.36V	21.09uA	493.7mV	46.79V	17.25uA
66	496.3mV	47.85V	20.94uA	490.8mV	46.63V	20.84uA
67	488.1mV	47.52V	17.24uA	487.0mV	46.79V	18.57uA
68	487.0mV	47.44V	16.83uA	493.8mV	47.86V	16.42uA
69	493.4mV	47.60V	17.44uA	496.1mV	47.47V	17.92uA
70	492.2mV	47.83V	18.31uA	495.1mV	46.84V	16.98uA
71	488.2mV	47.56V	20.69uA	488.4mV	46.70V	20.88uA
72	486.4mV	47.37V	18.79uA	493.0mV	46.80V	18.97uA
73	487.5mV	46.63V	16.77uA	490.9mV	47.63V	19.95uA
74	491.7mV	47.03V	17.18uA	496.0mV	47.68V	20.56uA
75	496.3mV	46.65V	20.79uA	491.0mV	46.72V	20.00uA
76	496.2mV	46.73V	17.86uA	487.5mV	47.45V	18.36uA
77	494.4mV	47.40V	18.22uA	486.0mV	46.89V	20.01uA

Made By: King Huang

Approval: Peter Yang