

Test Report

No.: SZXEC26001207219_1

Date: May 25, 2026

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Client Name: GUANGDONG NIUHANG ELECTRONIC TECHNOLOGY CO., LTD

Client Address: RROOM 301, BUILDING 1, NO.3 DAYUAN ROAD, ZHANGCUN, DONGCHENG STREET, DONGGUAN CITY, GUANGDONG PROVINCE

Sample Name: Semiconductor Components

Model No.: SOD-323

Client Ref. Information: Please see attachments

The above sample(s) and information were provided by the client.

THIS REPORT IS TO SUPERSEDE REPORT NO.SZXEC26001207219, DATE: Mar 24, 2026.

SGS Job No.: SZP26-010926

Sample Receiving Date: Mar 10, 2026

Testing Period: Mar 10, 2026 ~ Mar 16, 2026

Test Requested: Select test(s) as requested by the client.

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

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

Test Requirement	Conclusion
AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)	See Results

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Tina

Tina Fan
Approved Signatory

Scan to see the report



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SZX26-0012072-0001.C001	"Semiconductor Components"

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	-	mg/kg	-	ND
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Sum of 15 PAHs	-	mg/kg	-	ND
Material Category	-	-	-	-

Notes:

AfPS (German commission for Product Safety) : PAHs requirements

Parameter	Category 1	Category 2	Category 3
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact ^c with skin during the intended or foreseeable use ^d .	Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.



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	(more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children ^{a,b} up to 3 years of age.	a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP) mg/kg	< 1	< 2		< 10	
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Notes:

^a A "Child" is legally defined as a person before reaching the age of 14 years.

^b Use by children includes both active and passive contact by children.

^c Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No.1272/2013)



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^d According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

Remark:

The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

Remark: This report adds Client Ref.Info.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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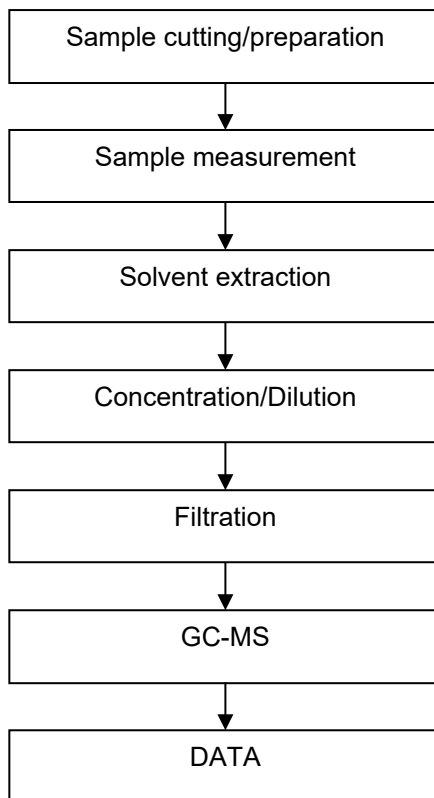
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PAHs Testing Flow Chart



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Attachment:

Diode:

R-Series: R-1, R-6

DO-series: A-405, DO-41, DO-15, DO-27(DO-201AD), DO-35, DO-201AC(SMA), DO-201AA(SMB), DO-201AB(SMC), DO-213AA, DO-213AB(LL-41), DO-218AB

TO-series: TO-251, TO-251S, TO-252, PTO-252, TO-262, TO-263, TO-220AB, TO-220AC, TO-220C, TO-220C-2L, TO-220FP, ITO-220AB, ITO-220AC, TO-220F, TO-220F-2L, TO-3P, TO-247, TO-247S, TO-277, TO-277A, TO-277B, TO-247, TO-247S, TO-3P, TO-3PS, TO-3PF, TO-264-3L, TO-264PLUS-3L

TOLx series: TOLL, TOLT1, TOLT2

SOD-series: SOD-923, SOD-723, SOD-523, SOD-323, SOD-323FL, SOD-123, SOD-123FL, SOD-123HE, SOD-323HE, SOD-80(LL-34), SOD-882

SM series: SMAW, SMAF, SMAFL, SMAFHE, SMBF, SMBFL, SMP

SOT-series: 0402, 0603, 0805, 1206, SOT-23, SOT-89, SOT-223

SC-series: SC-88, SC-89, SC-70

DFN series: DFN0603, DFN1608, DFN1610, DFN2020, DFN2018

PDFN series: PDFN3*3, PDFN5*6, PDFN8*8

AK3-series

Bridge Rectifiers:

SM-1, MBF, MBFS, MBS, MBSS, MBM, ABS, ABF, AKB, TMBF, HBS, HBL, LDB-S, DB-1, DB-S, RS, RB, KBL, KBU, KBP, TBP, TBP-1, KBPC, GBP, GBPC, GBU, GBL, SGBJ, GBJ, GBJ-H, KBJ, KBJL, BR, WOL, WOM, WOG, D3K, HV, GH, BCT, PSD, LD, SBL, BU, IBS, WOB, WOBM

Diode modules, rectifier modules, bridge rectifier modules:

MDC series; QL series; SQL series; MDS series; MDA series; MDK series; MDQ series; XQ series; KPBC series

Photovoltaic modules:

09E, QC3Q, Z8X, TS306X, JA005, 09ES

MOSFET, IGBT, Silicon Carbide, Gallium Nitride, Unidirectional SCR, Bidirectional SCR, Transistor:

DIP series module: DIP25, DIP24, DIP24F,

TO-series: TO-92, TO-251, TO-251S, TO-252, TO-252-4L, PTO-252, TO-126, TO-220A, TO-220B, TO-220AB, TO-220C, TO-220FP, ITO-220AB, TO-220F, TO-220FJ, TO-263, TO-263-5L, TO-263-6L, TO-263-7L, TO-262, TO-3P, TO-3PF, TO-247, TO-247S, TO-247L, TO-247H, TO-247-4L, TO-247Plus-3L, TO-247Plus-4L, TO-264-3L, TO-264PLUS-3L

TOLx series: TOLL, TOLT1, TOLT2

SOT-series: SOT-23, SOT-23-3L, SOT-89, SOT-223, SOT-143

SOP-series: SOP-89, SOP-8

DFN series: DFN3*3, DFN5*6, DFN8*8, DFN2020, DFN3030

PDFN series: PDFN3*3, PDFN3*3-D, PDFN5*6, PDFN5*6-D, LFPK5*6, PDFN8*8

QFN series: QFN3*3

Integrated Circuits:

SOT-series: SOT-23-5/6

SOP-series: SOP-8/14/16/18/20/24/28/30/36/48, SOP-8L



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SSOP-series: SSOP-8/14/16/18/20/24/28/36/48

MSOP-series: MSOP-10/14

TSSOP-series: TSSOP-14/20/28

DIP-series: DIP-8/14/16/20/24/28/36/48

QFN series: QFN16/20/24/28/32/40/48/64

DFN series: DFN6/8/10/20

LQPF series: LQPF32/44/48/52/64/100

SOP-series+

Low dropout regulators, three-terminal precision voltage regulators, voltage regulators:

SOT-series: SOT-23, SOT-23-3, SOT-23-5, SOT-89, SOT-89-3, SOT-89-5, SOT-223,

TO-series: TO-252, TO-220, TO-263, TO-263-5L, TO-92

SOP-series: SOP-8, ESOP-8



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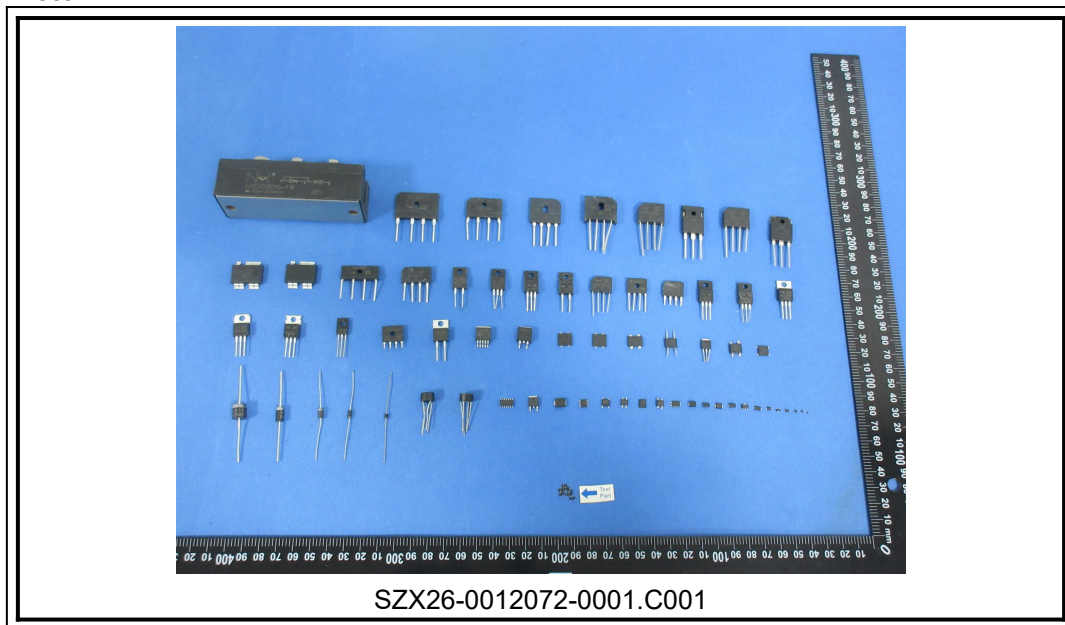
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