

检测报告

编号: SZXEC26001207220_1

日期: 2026 年 05 月 25 日

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客户名称: 广东纽航电子科技有限公司
客户地址: 广东省东莞市东城街道樟村大园路 3 号 1 栋 301 室

样品名称: 半导体元器件
型号: SOD-323
客户参考信息: 请见附页
以上样品及信息由客户提供。

此报告替代原来编号为 **SZXEC26001207220**, 日期为 **2026 年 03 月 24 日** 的报告。

SGS 工作编号: SZP26-010926
样品接收时间: 2026 年 03 月 10 日
检测周期: 2026 年 03 月 10 日 ~ 2026 年 03 月 16 日
检测要求: 根据客户要求检测
检测方法: 见后续页。
检测结果: 见后续页。

检测要求	结论
AfPS GS 2019:01 PAK-多环芳香烃 (PAHs)	见检测结果

通标标准技术服务有限公司深圳分公司
授权签名

范萍

Tina Fan 范萍
批准签署人

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检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SZX26-0012072-0001.C001	“半导体元器件”

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 方法检出限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

AfPS GS 2019:01 PAK-多环芳香烃 (PAHs)

检测方法: 参考 AfPS GS 2019:01 PAK, 采用 GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
苯并(a)芘 (BaP)	50-32-8	mg/kg	0.1	ND
苯并(e)芘 (BeP)	192-97-2	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	56-55-3	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	205-99-2	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	205-82-3	mg/kg	0.1	ND
苯并(k)荧蒽 (BkF)	207-08-9	mg/kg	0.1	ND
蒽 (CHR)	218-01-9	mg/kg	0.1	ND
二苯并(a,h)蒽 (DBA)	53-70-3	mg/kg	0.1	ND
苯并(g,h,i)苝(二苯并[a,h]苝) (BPE)	191-24-2	mg/kg	0.1	ND
茚并(1,2,3-c,d)芘 (IPY)	193-39-5	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
芘 (PYR)	129-00-0	mg/kg	0.1	ND
蒽 (ANT)	120-12-7	mg/kg	0.1	ND
荧蒽 (FLT)	206-44-0	mg/kg	0.1	ND
4 项多环芳香烃总和[菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)]	-	mg/kg	-	ND
萘 (NAP)	91-20-3	mg/kg	0.1	ND
15 项多环芳香烃总和	-	mg/kg	-	ND
材料分类	-	-	-	-

备注:

AfPS(德国产品安全委员会): 认证对多环芳香烃的要求

参数	1 类	2 类	3 类
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单位: mg/kg	设计意图为放入口中的材料, 或与皮肤长期接触 (超过 30 秒) 的材料用于 -2009/48/EC 定义的玩具, 或 -供 3 岁以下儿童 a,b 使用。	不属于第 1 类, 设计意图或可预见 d 与皮肤长期接触 (超过 30 秒) 或短期重复接触 e 的材料		不属于第 1 和 2 类, 设计意图或可预见与皮肤短期接触 (不超过 30 秒) 材料	
		a. 供儿童使用的产品	b. 其他产品	a. 供儿童使用的产品	b. 其他产品
苯并(a)芘 (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(e)芘 (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(a)蒽 (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(b)荧蒽 (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(j)荧蒽 (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(k)荧蒽 (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
蒽 (CHR), mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
二苯并(a,h)蒽 (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(g,h,i)花(二苯嵌苯) (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚并(1,2,3-c,d)芘 (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)	< 1 (总和)	< 5 (总和)	< 10 (总和)	< 20 (总和)	< 50 (总和)
萘 (NAP)	< 1	< 2		< 10	
15 PAH 之和	< 1	< 5	< 10	< 20	< 50

注释:

a 儿童是指法定年龄未满 14 周岁的人。

b 供儿童使用包括儿童的主动接触或被动接触。

c “短期重复接触”的定义摘自 REACH 附录 XVII 第 50 条修正案 (EC) No. 1272/2013)。

d 根据德国产品安全法 (ProdSG) (第一章第 2 条第 28 款) 的定义, “可预见的使用”是指将产品投放市场的人无意但可以合理预见的方式使用产品。

备注:

德国产品安全委员会 (AfPS) 于 2020 年 4 月 10 日发布了关于多环芳香烃 (PAHs) 的新文件 (AfPS GS 2019:01 PAK), 该文件将于 2020 年 7 月 1 日起用于 GS-MARK 认证。

备注: 本报告增加了客户参考信息。

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 ($w=0$) 的二元判定规则进行符合性判定。

除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。

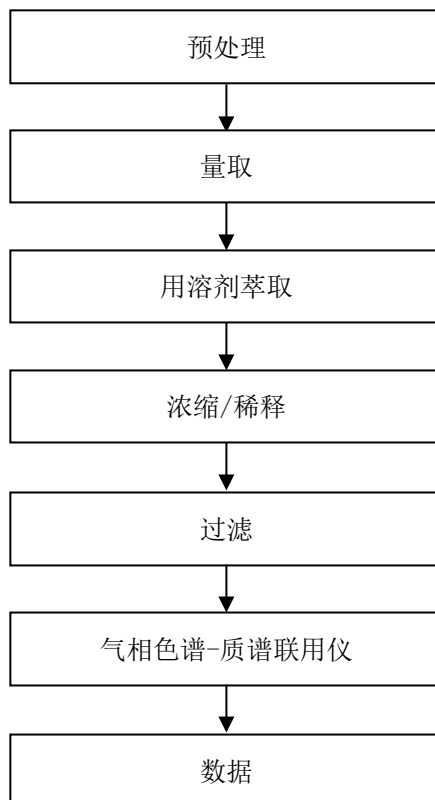


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PAHs 检测流程图



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附件:

二极管:

R-系列: R-1, R-6

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

TO-系列: TO-251, TO-251S, TO-252, PTO-252, TO-262, TO-263, TO-220AB, TO-220AC, TO-220C, TO-220 C-2L, TO-220FP, ITO-220AB, ITO-220AC, TO-220F, TO-220F-2L, TO-3P, TO-247, TO-247S, TO-277, TO-2 77A, TO-277B, TO-247, TO-247S, TO-3P, TO-3PS, TO-3PF, TO-264-3L, TO-264PLUS-3L

TOLx 系列: TOLL, TOLT1, TOLT2

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

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

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

SC 系列: SC-88, SC-89, SC-70

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

PDFN 系列: PDFN3*3, PDFN5*6, PDFN8*8

AK3 系列

桥式整流器:

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

二极管模块、整流模块、桥式整流模块:

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

光伏模块:

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

MOS 管、IGBT、碳化硅、氮化镓、单向可控硅、双向可控硅、三极管:

DIP 系列模块: DIP25, DIP24, DIP24F

TO 系列: 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-2 62, TO-3P, TO-3PF, TO-247, TO-247S, TO-247L, TO-247H, TO-247-4L, TO-247Plus-3L, TO-247Plus-4L, T O-264-3L, TO-264PLUS-3L

TOLx 系列: TOLL, TOLT1, TOLT2

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

SOP 系列: SOP-89, SOP-8

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



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

QFN 系列: QFN3*3

集成电路:

SOT 系列: SOT-23-5/6

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

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

MSOP 系列: MSOP-10/14

TSSOP 系列: TSSOP-14/20/28

DIP 系列: DIP-8/14/16/20/24/28/36/48

QFN 系列: QFN16/20/24/28/32/40/48/64

DFN 系列: DFN6/8/10/20

LQPF 系列: LQPF32/44/48/52/64/100

SOP 系列+

低压差调整器、三端精密稳压器、电压调整器:

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

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

SOP 系列: SOP-8, ESOP-8



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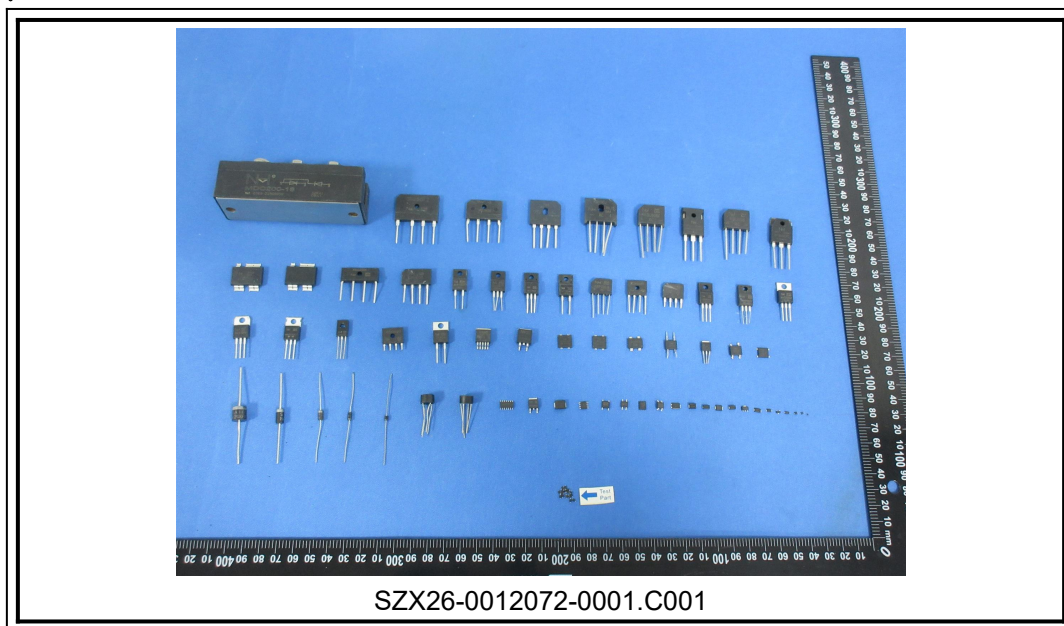
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