

## 检测报告

编号: CANEC25015059702

日期: 2025 年 07 月 02 日

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客户名称: 深圳市永源微电子科技有限公司

客户地址: 深圳市宝安区福海和秀西路 44 号锐明工业园 C2 栋

样品名称: 半导体元器件

型号: SOT-23

客户参考信息: QFN2\*2-6L、QFN3\*3-8L、SOP-8L、SOT89-3L、ESOP-8L、TO-92-3L、TO94-4L、SOT223-3L、SOT23L、SOT23-3L、SOT23-5L、SOT23-6L、SOT323-3L、SOT363-6L、SOT523-3L、SOT723-3L

以上样品及信息由客户提供。

SGS 工作编号: SZP25-031683

样品接收时间: 2025 年 06 月 24 日

检测周期: 2025 年 06 月 24 日 ~ 2025 年 07 月 02 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)	符合

通标标准技术服务有限公司广州分公司  
授权签名

叶士龙

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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	CAN25-0150597-0001.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.	限值	单位	MDL	A1
苯并(a)芘 (BaP)	50-32-8	0.5	mg/kg	0.1	ND
苯并(e)芘 (BeP)	192-97-2	0.5	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	56-55-3	0.5	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	205-99-2	0.5	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	205-82-3	0.5	mg/kg	0.1	ND
苯并(k)荧蒽 (BkF)	207-08-9	0.5	mg/kg	0.1	ND
蒽 (CHR)	218-01-9	0.5	mg/kg	0.1	ND
二苯并(a,h)蒽 (DBA)	53-70-3	0.5	mg/kg	0.1	ND
苯并(g,h,i)苝(二苯并苯) (BPE)	191-24-2	0.5	mg/kg	0.1	ND
茚并(1,2,3-c,d)芘 (IPY)	193-39-5	0.5	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)]	-	10	mg/kg	-	ND
萘 (NAP)	91-20-3	2	mg/kg	0.1	ND
15 项多环芳香烃总和	-	10	mg/kg	-	ND
材料分类	-	-	-	-	2
结论	符合				

## 备注:

根据客户提供的信息, 检测样品为德国产品安全法涉及的非儿童使用产品。

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 <sup>d</sup> 与皮肤长期接触 (超过 30 秒) 或短期重复接触 <sup>c</sup> 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。

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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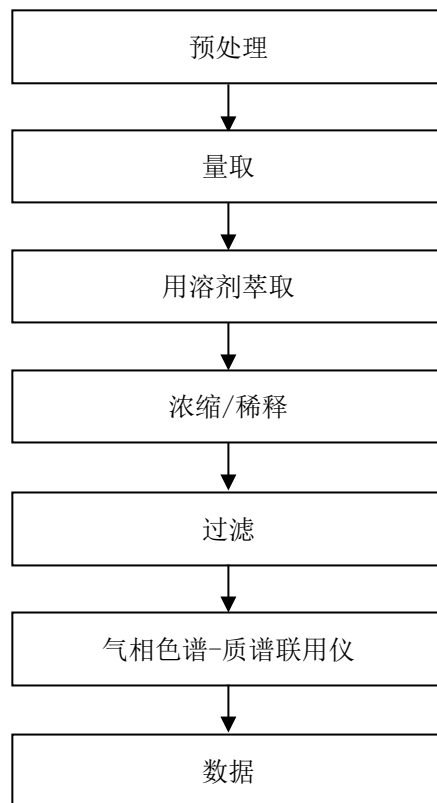
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## PAHs 检测流程图





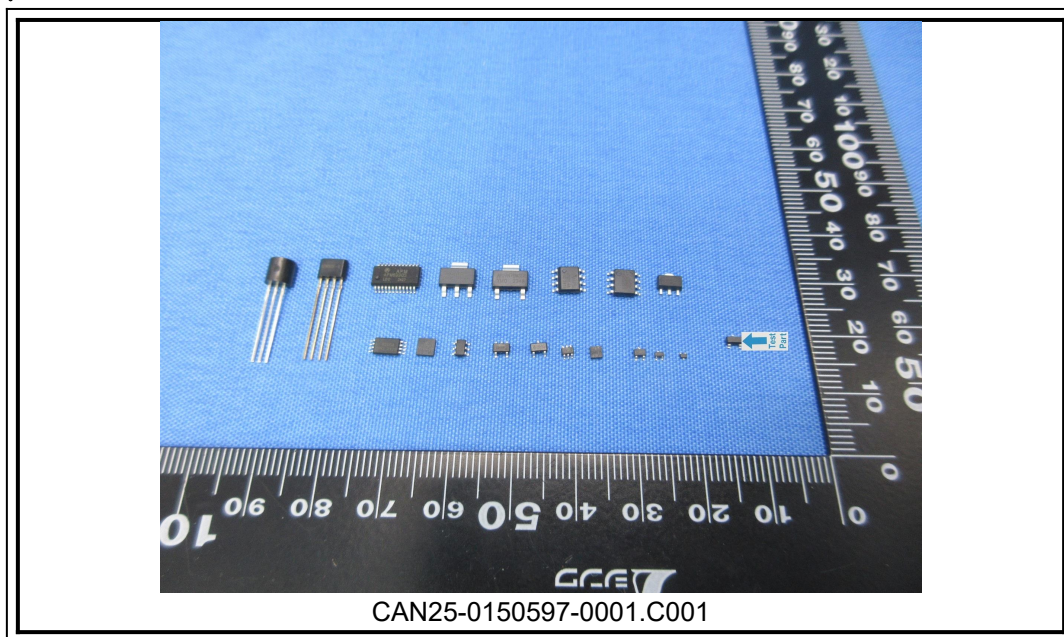
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样品照片:



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