

## 检测报告

编号: SHAEC23000366216

日期: 2023年02月03日

第1页, 共16页

客户名称: 扬州扬杰电子科技股份有限公司

客户地址: 扬州市邗江区创业园中路26号

样品名称: 二极管

客户参考信息: 玻钝芯片; 肖特基芯片; 框架/跳线/引线; 锡膏/焊片/焊锡丝; 无卤塑封料1; 有卤塑封料1; 油墨; 锡球

以上样品及信息由客户提供。

SGS 工作编号: SP23-000791

样品接收时间: 2023年01月10日

检测周期: 2023年01月10日 - 2023年02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
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)	符合

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倪俊

Tom Ni 倪俊  
批准签署人

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Testing Center - China

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# 检测报告

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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	A2	SHA23-0003662-0001.C002	银色金属
SN2	A3	SHA23-0003662-0001.C003	灰色固体
SN3	A4	SHA23-0003662-0001.C004	黑色固体
SN4	A5	SHA23-0003662-0001.C005	银色/黑色固体
SN5	A7	SHA23-0003662-0001.C007	银色膏体
SN6	A11	SHA23-0003662-0001.C011	铜色金属
SN7	A27	SHA23-0003662-0001.C027	银色金属丝
SN8	A39	SHA23-0003662-0001.C039	银色/灰色固体

### 备注:

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

**欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)和邻苯二甲酸二异丁酯(DIBP)**

检测方法: 参考滴定法, IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A27
镉 (Cd)	100	mg/kg	2	ND
铅(Pb)	0.1	%	-	92.4▲
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	µg/cm <sup>2</sup>	0.10	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND
二溴联苯(DiBB)	-	mg/kg	5	ND
三溴联苯(TriBB)	-	mg/kg	5	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND



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检测项目	限值	单位	MDL	A27
八溴联苯(OctaBB)	-	mg/kg	5	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND
十溴二苯醚(DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注:

- (1) 最大允许限值引用自RoHS指令(EU) 2015/863。
- (2) IEC 62321系列等同于 EN 62321系列
- (3) ▼ = a. 当六价铬的浓度高于0.13 µg/cm<sup>2</sup>时, 样品为阳性, 即含有六价铬;  
b. 当六价铬的浓度为ND(低于0.10 µg/cm<sup>2</sup>)时, 样品为阴性, 即未检测到六价铬;  
c. 当六价铬的浓度介于0.10 µg/cm<sup>2</sup>与0.13 µg/cm<sup>2</sup>之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果;  
由于未获知样品的存储条件和生产日期, 样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。
- (4) ▲ 根据客户提供的声明, 编号A27中的铅(Pb)被欧盟RoHS指令2011/65/EU豁免, 相应豁免条文(请以英文原文为准) [ANNEX III 7(a)]: 高熔点型焊料中的铅(即铅含量等于或大于85%的铅基合金焊料)。

**欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)和邻苯二甲酸二异丁酯(DIBP)**

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A2	A11
镉 (Cd)	100	mg/kg	2	ND	ND
铅 (Pb)	1000	mg/kg	2	41	11
汞 (Hg)	1000	mg/kg	2	ND	ND
六价铬(Cr(VI)) ▼	-	µg/cm <sup>2</sup>	0.10	ND	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND	ND



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检测项目	限值	单位	MDL	A2	A11
二溴联苯(DiBB)	-	mg/kg	5	ND	ND
三溴联苯(TriBB)	-	mg/kg	5	ND	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND	ND
十溴二苯醚(DecaBDE)	-	mg/kg	5	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND	ND

备注:

- (1) 最大允许限值引用自RoHS指令(EU) 2015/863。
- (2) IEC 62321系列等同于 EN 62321系列。
- (3) ▼ = a. 当六价格的浓度高于0.13 µg/cm²时, 样品为阳性, 即含有六价格;  
 b. 当六价格的浓度为ND (低于0.10 µg/cm²) 时, 样品为阴性, 即未检测到六价格;  
 c. 当六价格的浓度介于0.10 µg/cm²与0.13 µg/cm²之间时, 无法直接判定是否检测到六价格, 因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期, 样品的六价格检测结果仅能代表测试时样品含六价格的状态。

**欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价格、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)和邻苯二甲酸二异丁酯(DIBP)**

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A3	A4	A5
镉 (Cd)	100	mg/kg	2	ND	ND	ND



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检测项目	限值	单位	MDL	A3	A4	A5
铅 (Pb)	1000	mg/kg	2	ND	ND	43560 <sup>▲</sup>
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))	1000	mg/kg	8	ND	ND	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND	ND	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND	ND	ND
二溴联苯(DiBB)	-	mg/kg	5	ND	ND	ND
三溴联苯(TriBB)	-	mg/kg	5	ND	ND	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND	ND	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND	ND	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND	ND	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND	ND	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND	ND	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND	ND	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND	ND	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND	ND	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND	ND	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND	ND	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND	ND	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND	ND	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND	ND	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND	ND	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND	ND	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND	ND	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND	ND	ND
十溴二苯醚(DecaBDE)	-	mg/kg	5	ND	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND	ND	ND

检测项目	限值	单位	MDL	A7	A39
镉 (Cd)	100	mg/kg	2	ND	ND
铅 (Pb)	1000	mg/kg	2	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND
六价铬(Cr(VI))	1000	mg/kg	8	ND	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND	ND
二溴联苯(DiBB)	-	mg/kg	5	ND	ND
三溴联苯(TriBB)	-	mg/kg	5	ND	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND	ND



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检测项目	限值	单位	MDL	A7	A39
八溴联苯(OctaBB)	-	mg/kg	5	ND	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND	ND
十溴二苯醚(DecaBDE)	-	mg/kg	5	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND	ND

**备注:**

- (1) 最大允许极限值引用自 RoHS 指令(EU) 2015/863。
- (2) IEC 62321 系列等同于 EN 62321 系列
- (3) 2021年7月22号开始, DEHP, BBP, DBP 和 DIBP 的限制适用于医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。
- (4) ▲根据客户提供的声明, 编号 A5 中的铅(Pb)被欧盟 RoHS 指令 2011/65/EU 豁免, 相应豁免条文(请以英文原文为准) [ANNEX III 7(c)-II]: 电子电气元件中玻璃或陶瓷材料(电容中陶瓷介质除外)所含的铅, 如压电设备、玻璃或陶瓷复合元件。

样品 A39 最新收样日期: 2023.02.02

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。  
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 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。



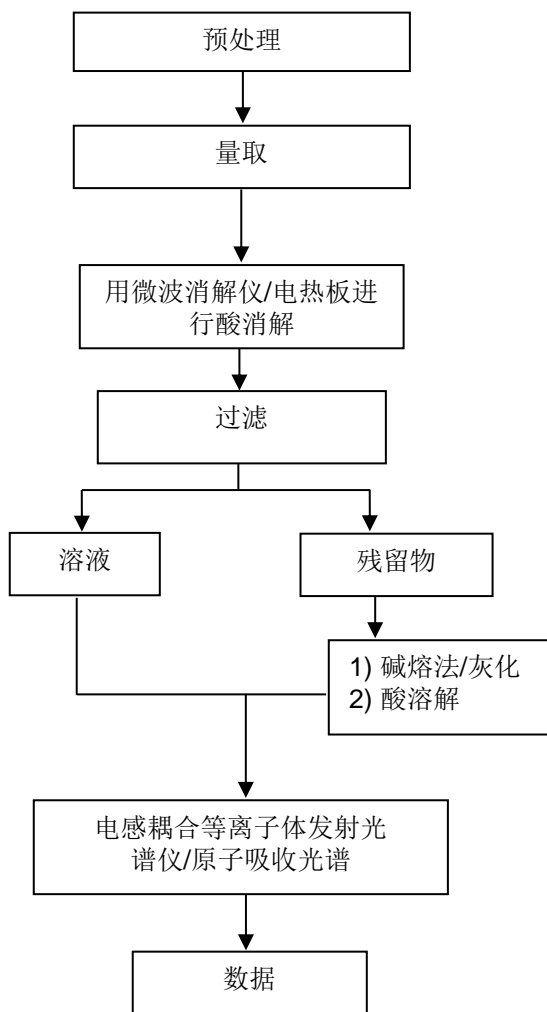
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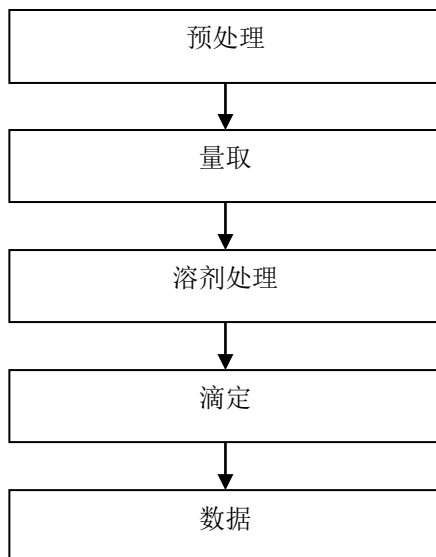
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### 元素 (IEC62321) 检测流程图

样品按照下述流程被完全消解



## 滴定检测流程图



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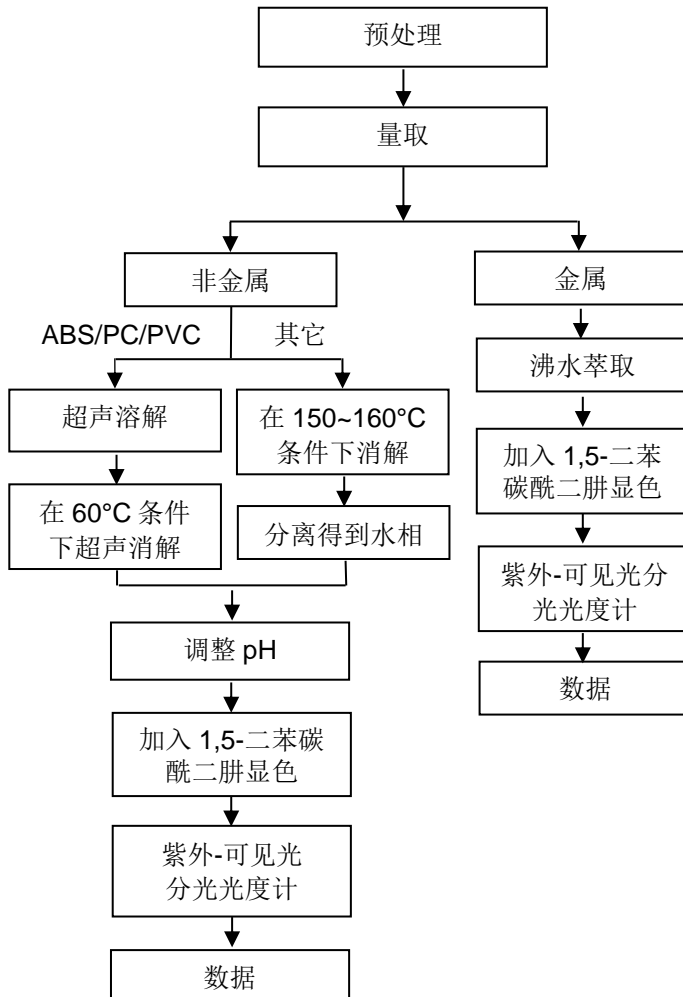
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## 六价铬检测流程图

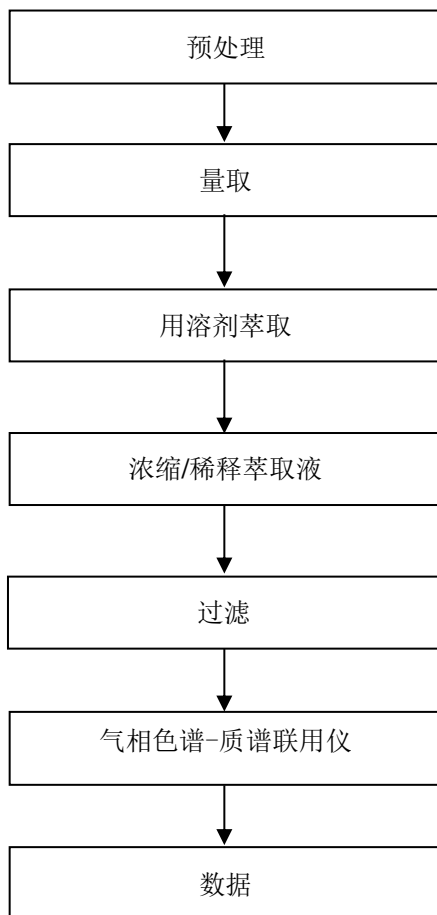


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### PBBs/PBDEs 检测流程图



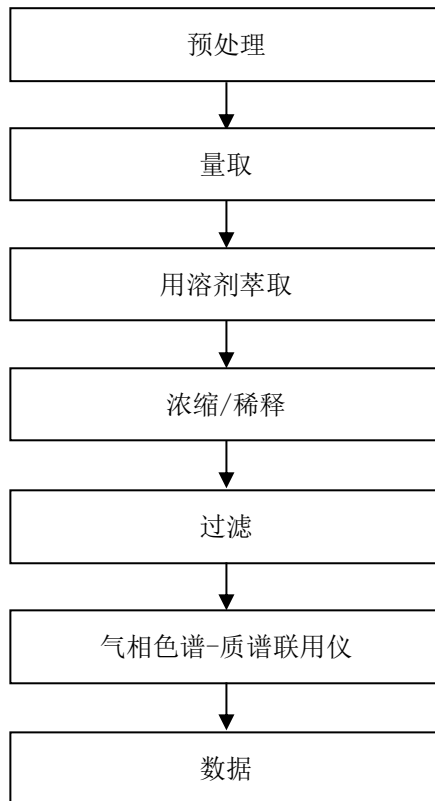
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### Phthalates 检测流程图



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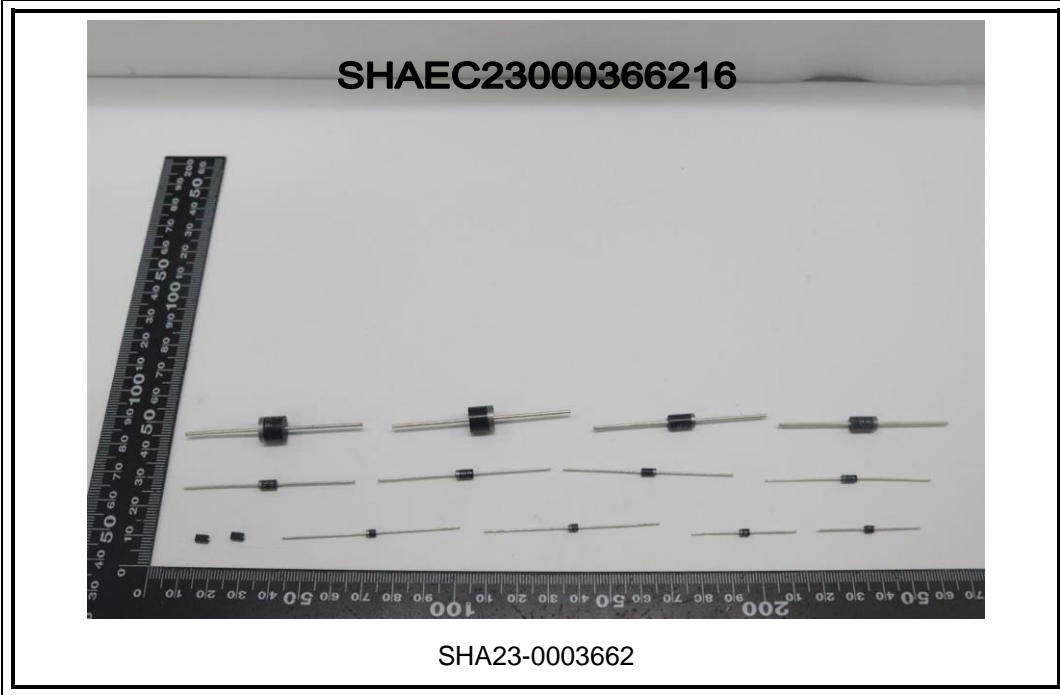
## 检测报告

编号: SHAEC23000366216

日期: 2023年02月03日

第12页, 共16页

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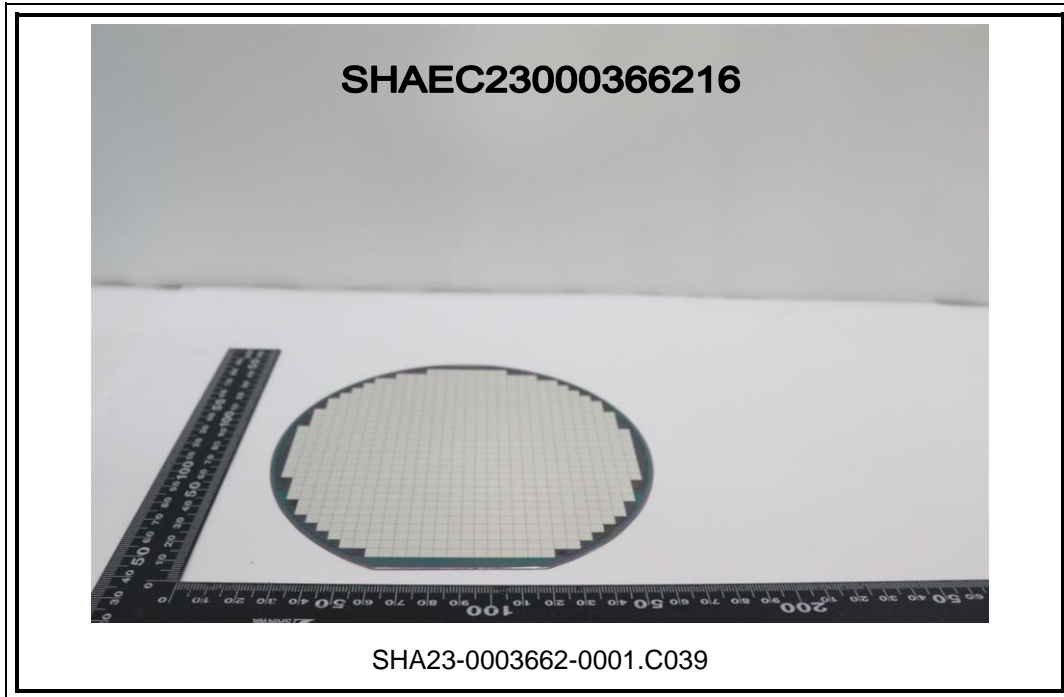
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