



## 检测报告

编号: CKGEC2300019904

日期: 2023年01月16日 第1页,共11页

客户名称: 重庆平伟实业股份有限公司

客户地址: 重庆市梁平区工业园区

样品名称: 半导体器件

型号: TO-263

客户参考信息: 见备注

以上样品及信息由客户提供。

SGS工作编号: 10024140 - CQ

样品接收日期: 2023年01月10日

检测周期: 2023年01月10日 - 2023年01月16日

检测要求: 根据客户要求检测

检测方法: 请参见下一页

检测结果: 请参见下一页

检测结果概要:

| 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 |
| 欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863- 铅, 汞, 镉和六价铬                                                                                                  | 符合 |

通标标准技术服务(重庆)有限公司  
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邹昌梅

Mary Zou 邹昌梅  
批准签署人

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检测结果:

## 检测样品描述:

| 样品编号 | SGS样品ID          | 描述         |
|------|------------------|------------|
| SN1  | CKG23-000199.002 | 带白色印字的黑色塑料 |
| SN2  | CKG23-000199.003 | 银色金属引脚     |
| SN3  | CKG23-000199.006 | 带焊锡的铜色金属   |

备注:

- (1) 1 mg/kg = 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IEC 62321-4:2013+A1:2017, 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 | 002 |
|----------------|------|-------|-----|-----|
| 镉 (Cd)         | 100  | mg/kg | 2   | ND  |
| 铅 (Pb)         | 1000 | mg/kg | 2   | ND  |
| 汞 (Hg)         | 1000 | mg/kg | 2   | ND  |
| 六价铬(Cr(VI))    | 1000 | mg/kg | 8   | ND  |
| 多溴联苯之和(PBBs)   | 1000 | mg/kg | -   | ND  |
| 一溴联苯           | -    | mg/kg | 5   | ND  |
| 二溴联苯           | -    | mg/kg | 5   | ND  |
| 三溴联苯           | -    | mg/kg | 5   | ND  |
| 四溴联苯           | -    | mg/kg | 5   | ND  |
| 五溴联苯           | -    | mg/kg | 5   | ND  |
| 六溴联苯           | -    | mg/kg | 5   | ND  |
| 七溴联苯           | -    | mg/kg | 5   | ND  |
| 八溴联苯           | -    | mg/kg | 5   | ND  |
| 九溴联苯           | -    | mg/kg | 5   | ND  |
| 十溴联苯           | -    | mg/kg | 5   | ND  |
| 多溴二苯醚之和(PBDEs) | 1000 | mg/kg | -   | ND  |
| 一溴二苯醚          | -    | mg/kg | 5   | ND  |
| 二溴二苯醚          | -    | mg/kg | 5   | ND  |



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| 检测项目                  | 限值   | 单位    | MDL | 002 |
|-----------------------|------|-------|-----|-----|
| 三溴二苯醚                 | -    | mg/kg | 5   | ND  |
| 四溴二苯醚                 | -    | mg/kg | 5   | ND  |
| 五溴二苯醚                 | -    | mg/kg | 5   | ND  |
| 六溴二苯醚                 | -    | mg/kg | 5   | ND  |
| 七溴二苯醚                 | -    | mg/kg | 5   | ND  |
| 八溴二苯醚                 | -    | mg/kg | 5   | ND  |
| 九溴二苯醚                 | -    | mg/kg | 5   | ND  |
| 十溴二苯醚                 | -    | 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。

## 欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863-铅, 汞, 镉和六价铬

检测方法: 参考IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, 采用 ICP-OES 和 UV-Vis 进行分析。

| 检测项目         | 限值   | 单位     | MDL | 003 | 006    |
|--------------|------|--------|-----|-----|--------|
| 镉 (Cd)       | 100  | mg/kg  | 2   | ND  | ND     |
| 铅 (Pb)       | 1000 | mg/kg  | 2   | ND  | 14689▲ |
| 汞 (Hg)       | 1000 | mg/kg  | 2   | ND  | ND     |
| 六价铬(Cr(VI))▼ | -    | µg/cm² | 0.1 | 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) ▼=a. 当六价铬的浓度高于0.13 µg/cm²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/cm²)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/cm²与0.13 µg/cm²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006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)。



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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)。  
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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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### 备注:

Rectifier Bridge, Mosfet, Photovoltaic module, SOD-923, SOD-723, SC-89, SOT-416, SOT-23, SOT-323, SOT-252, SOT-223, A-405, DO-41(DO-204AL), DO-15(DO-204AC), DO-27 (DO-201AD), DO-27 (DO-201AE), HVM, HV, R-1, R-3, R-6, ITO-220AC/AB, TO-220AC/AB, WOB, RB-1, MBS, BR-15, RC-2, BRW, DB, DBS, GBJ, GBL, GBP, GBU, KBPC, KBP, KBU, KBL, MB, MM, RS, SMA(DO-214AC), SMB(DO-214AA), SMC(DO-214AB), SMF, PS-277, PS-277A, PS-277B, SOT-23, SOT-123, SOT-523, SOD-123, SOD-323, SOD-523, TO-92, TO-126, SOD-126, ABS, KBJ, LL-34, DO-35, DO-41, LL-41, SOD-123FL, TBF, TO-251, TO-252, TO-262, TO-263, ABM, MBF, SMBF, D3K, SMFL, TMBF, SOD-123HE, SOP-8, ABF, TO-220CB, TO-220MF, TO-247, DFN, SMFT, TO-220FS, TO-262CB, TO-263CB, SOD-123FT, TO-277, HGBU, HGBJ, RTMBF, TBM, DO-218AB, SOT223, TO-3P, TOLL-1, TOLL-2, SOT-563



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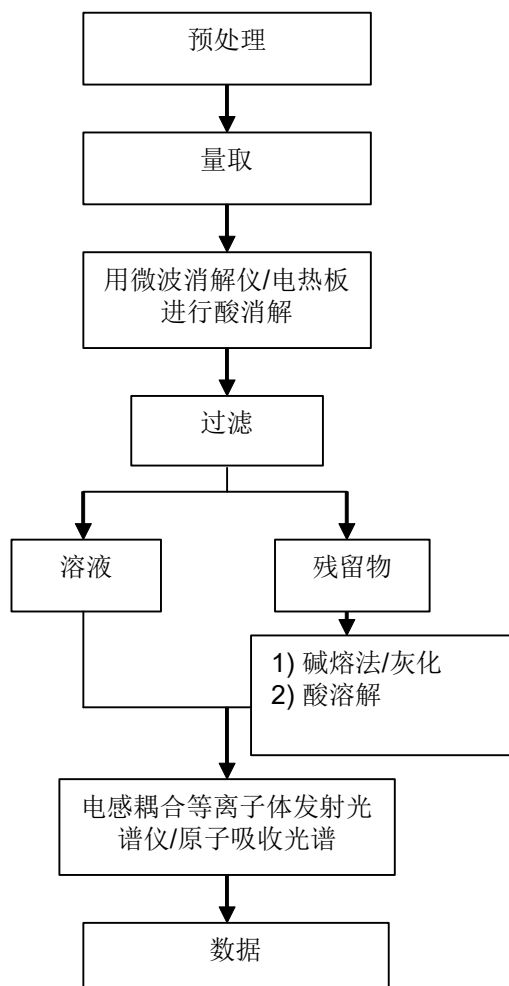
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## 元素(IEC62321) 检测流程图

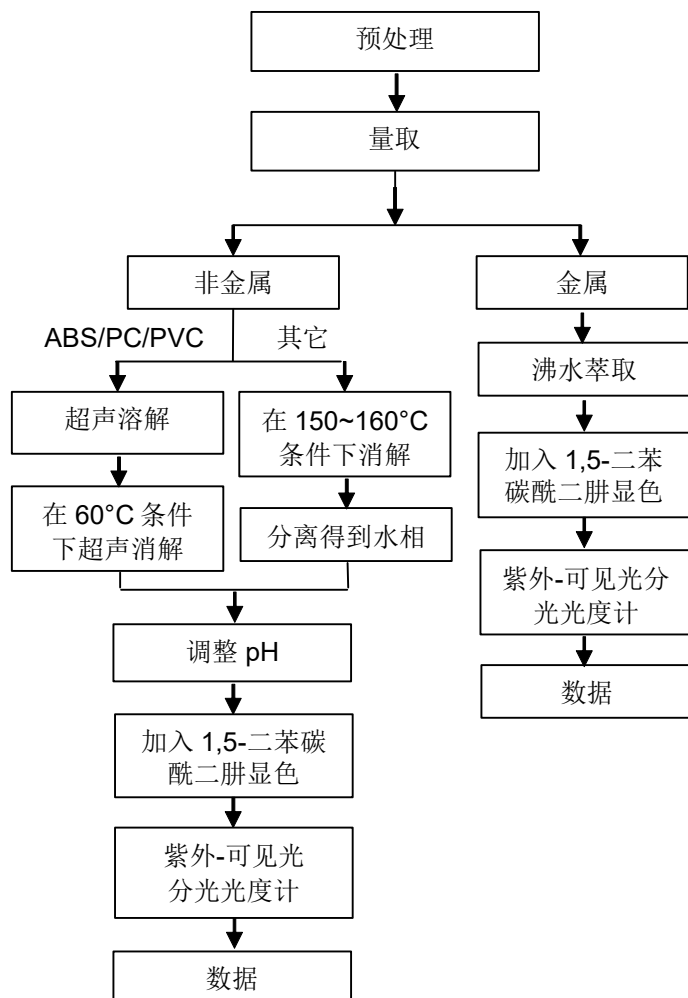
1)样品按照下述流程被完全消解



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## 六价铬检测流程图



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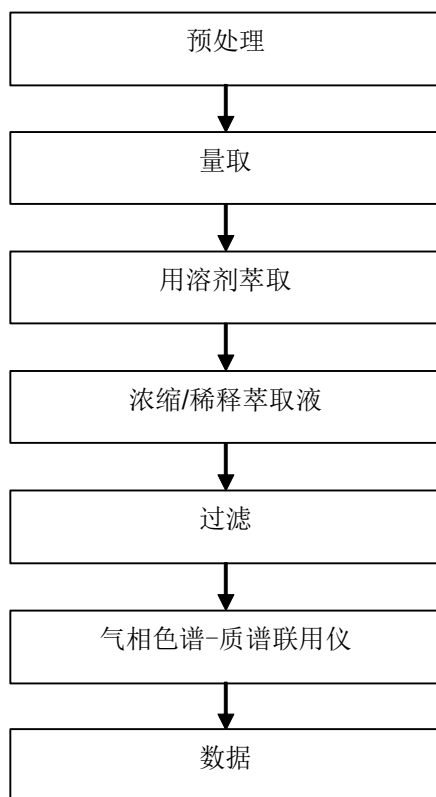
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## PBBs/PBDEs 检测流程图

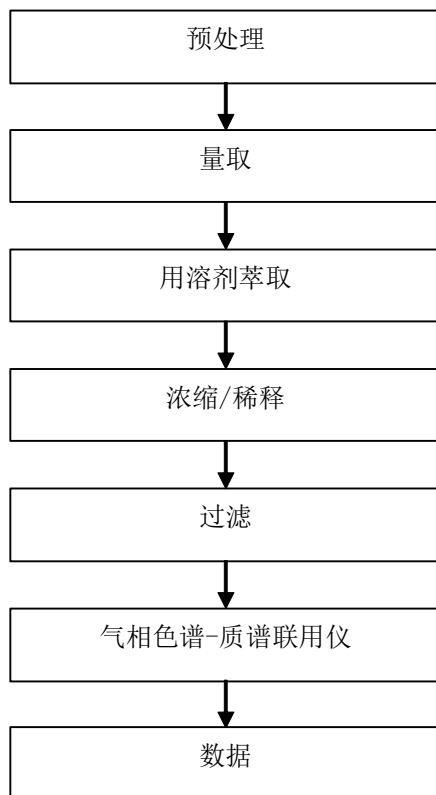


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## Phthalates 检测流程图



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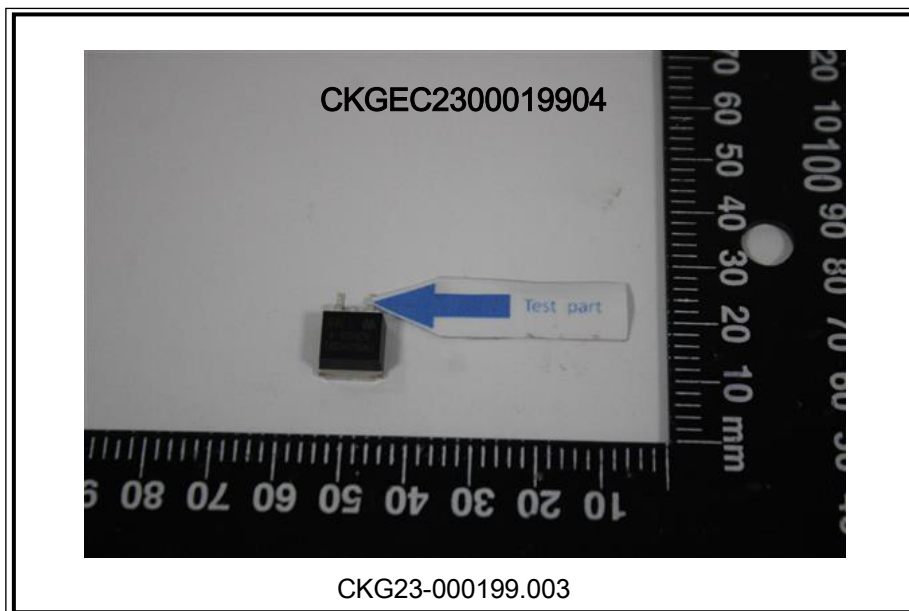
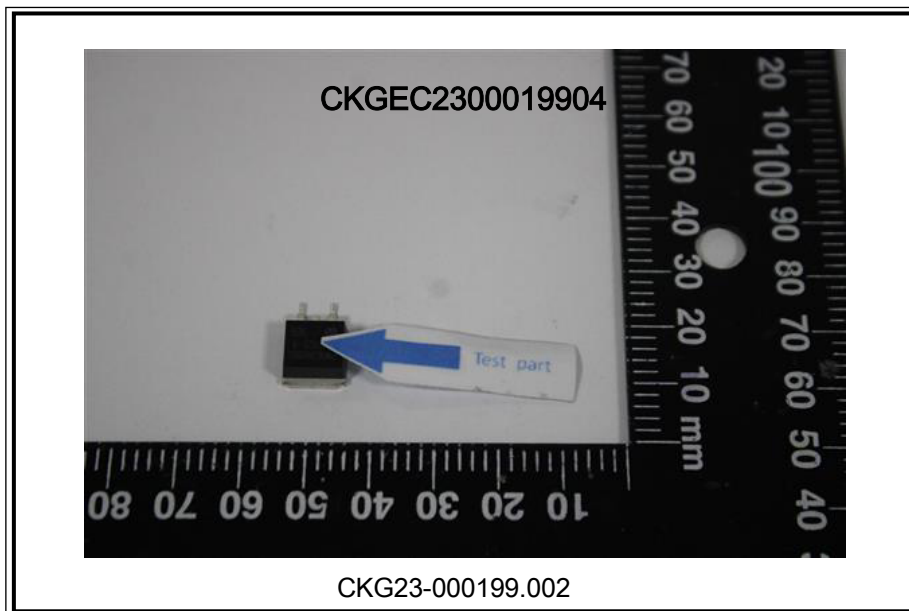
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## 检测报告

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样品照片:



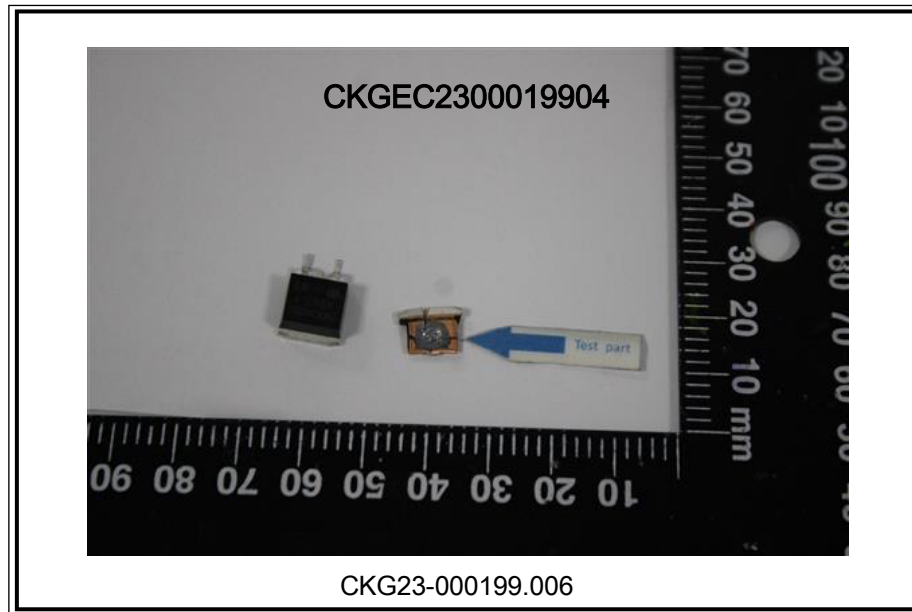
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