

检测报告

编号: TAOEC2306921012

日期: 2023年10月12日 第1页,共5页

客户名称: 济南鲁晶半导体有限公司

客户地址: 济南市高新区飞跃大道2016号创新工场F1/F3

样品名称: 塑封三极管

型号: SOT-23

客户参考信息: 塑封二极管,整流桥, MOS,
DO-41,DO-15,DO-27,R-1,R-6,SMA,SMB,SMC,MBS,MBF,DB,WOM,KBL,KBU,K
BJ,KBP,KBPC,SOT-23,SOT-223,SOT-323,SOT-363,SOT-523,SOT-723,SOT-92
3,SOT-113,SOT-89,
SOD-123,SOD-323,SOD-523,SOD-723,SOD-923,TO-92,TO-126,TO-220,TO-22
0F,TO-251,TO-252,TO-3P,TO-247,TO-263,TO-277,TOLL,DBS,ABS,SOP-4,SO
P-8,DFN,QFN

以上样品及信息由客户提供。

SGS工作编号: QDP23-001244 - QD

样品接收日期: 2023年09月20日

检测周期: 2023年09月20日 - 2023年10月11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

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授权签名Zhang Bo, Justin 张波
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检测报告

编号: TAOEC2306921012

日期: 2023年10月12日 第2页,共5页

检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	TAO23-069210.006	带有银色金属引脚的黑色本体 (混测)

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

全氟辛烷磺酸(PFOS)及其衍生物和全氟辛酸(PFOA)及其盐

检测方法: 参照CEN/TS 15968:2010 方法, 采用LC-MS-MS检测。

检测项目	CAS NO.	单位	MDL	006
全氟辛烷磺酸(PFOS)及衍生物	-	mg/kg	-	ND
全氟辛烷磺及其衍生物 (PFOS)^	1763-23-1	mg/kg	0.01	ND
N-乙基全氟辛烷磺酰胺 (EtFOSA)	4151-50-2	mg/kg	0.01	ND
2-(N-乙基全氟辛基磺酰胺) 乙醇 (EtFOSE)	1691-99-2	mg/kg	0.01	ND
N-甲基全氟辛烷磺酰胺 (MeFOSA)	31506-32-8	mg/kg	0.01	ND
2-(N-甲基全氟辛基磺酰胺) 乙醇 (MeFOSE)	24448-09-7	mg/kg	0.01	ND
全氟辛基磺酰胺 (PFOSA)	754-91-6	mg/kg	0.01	ND
全氟辛酸(PFOA)及其盐+		mg/kg	0.01	ND

备注:

- (1) ^全氟辛烷磺酸是指其酸、盐/衍生物, 包括全氟辛烷磺酸 (CAS No.: 1763-23-1), 全氟辛基磺酸钾 (CAS No.: 2795-39-3), 全氟辛基磺酸锂 (CAS No.: 29457-72-5), 全氟辛基磺酸铵 (CAS No.: 29081-56-9), 全氟辛烷磺酸二乙醇胺 (CAS No.: 70225-14-8), 全氟辛烷磺酸四乙铵 (CAS No.: 56773-42-3), 全氟辛基磺酸二癸二甲基铵 (CAS No.: 251099-16-8) 和全氟辛基磺酰氟 (CAS No.: 307-35-7)。
- (2) PFOA 及其盐+是指其酸/盐, 包括全氟辛酸 (CAS No.: 335-67-1), 全氟辛酸钠 (CAS No.: 335-95-5), 全氟辛酸钾 (CAS No.: 2395-00-8), 全氟辛酸银 (CAS No.: 335-93-3), 全氟辛酰氟 (CAS No.: 335-66-0) 和全氟辛酸铵 (CAS No.: 3825-26-1)。

备注:

样品的检测是基于申请人要求混合检测, 报告中的混合检测结果不代表其中个别单一材质的含量, 该检测数据仅供参考。

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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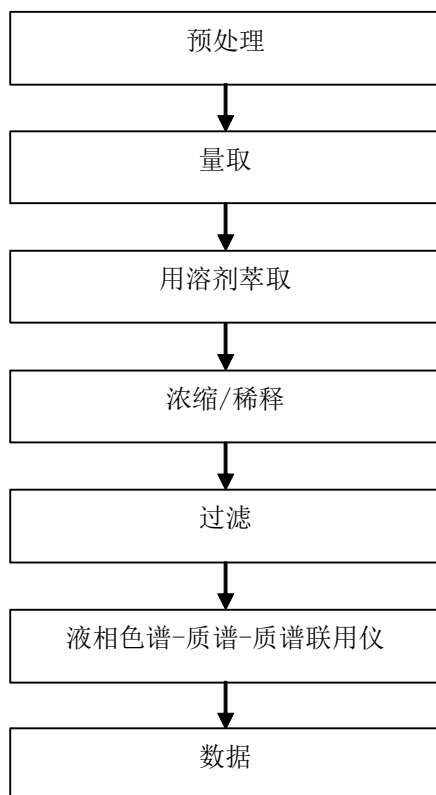
日期: 2023年10月12日 第3页,共5页

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PFOS/PFOA 检测流程图



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Services
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编号: TAOEC2306921012

日期: 2023年10月12日 第5页,共5页

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检测报告

编号: TAOEC2306921008

日期: 2023年10月12日 第1页,共8页

客户名称: 济南鲁晶半导体有限公司

客户地址: 济南市高新区飞跃大道2016号创新工场F1/F3

样品名称: 塑封三极管

型号: SOT-23

客户参考信息: 塑封二极管,整流桥, MOS,
DO-41,DO-15,DO-27,R-1,R-6,SMA,SMB,SMC,MBS,MBF,DB,WOM,KBL,KBU,KB
J,KBP,KBPC,SOT-23,SOT-223,SOT-323,SOT-363,SOT-523,SOT-723,SOT-923,
SOT-113,SOT-89,
SOD-123,SOD-323,SOD-523,SOD-723,SOD-923,TO-92,TO-126,TO-220,TO-220
F,TO-251,TO-252,TO-3P,TO-247,TO-263,TO-277,TOLL,DBS,ABS,SOP-4,SOP-8
,DFN,QFN

以上样品及信息由客户提供。

SGS工作编号: QDP23-001244 - QD

样品接收日期: 2023年09月20日

检测周期: 2023年09月20日 - 2023年10月11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

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张波

Zhang Bo, Justin 张波
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检测报告

编号: TAOEC2306921008

日期: 2023年10月12日 第2页,共8页

检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	TAO23-069210.004	带有银色金属引脚的黑色本体(混测)

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), 邻苯二甲酸丁基酯(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 62321-5:2013, IEC 62321-4:2013+AMD1:2017, 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	004
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	15
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
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND



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检测项目	限值	单位	MDL	004
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。

备注:

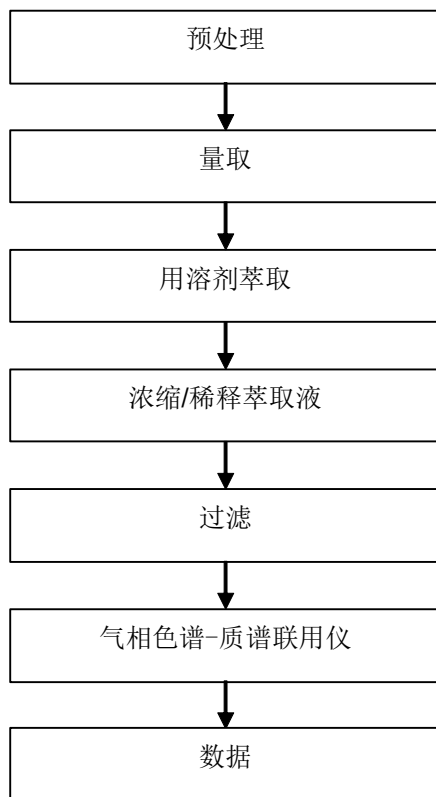
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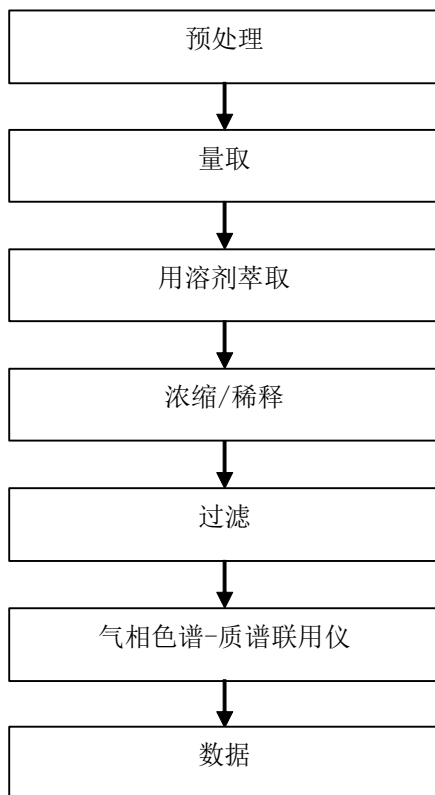
PBBs/PBDEs 检测流程图



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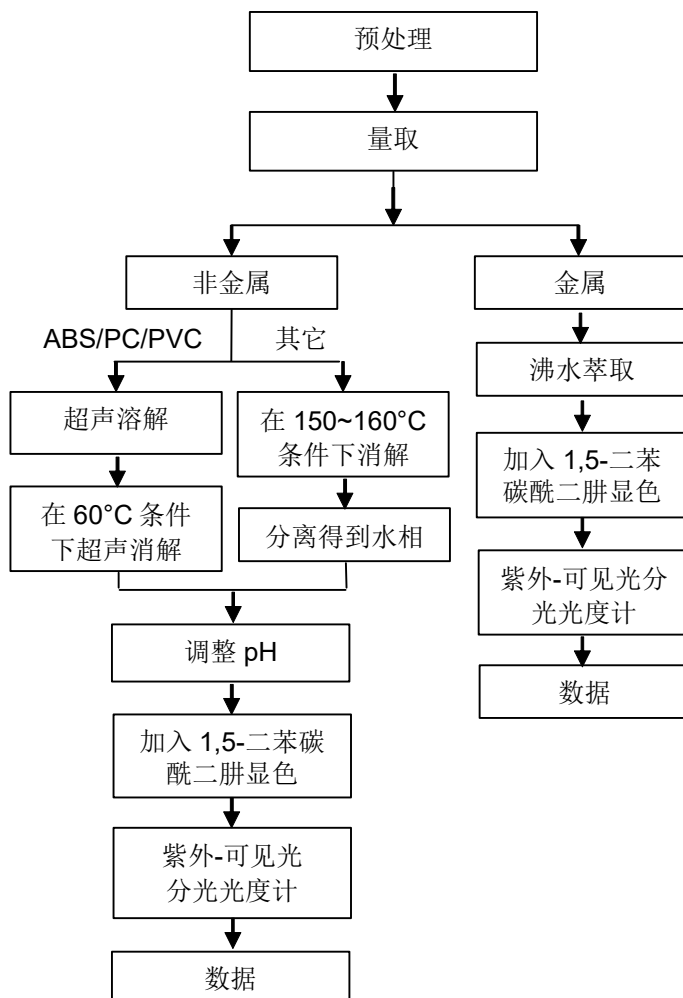
Phthalates 检测流程图



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六价铬检测流程图

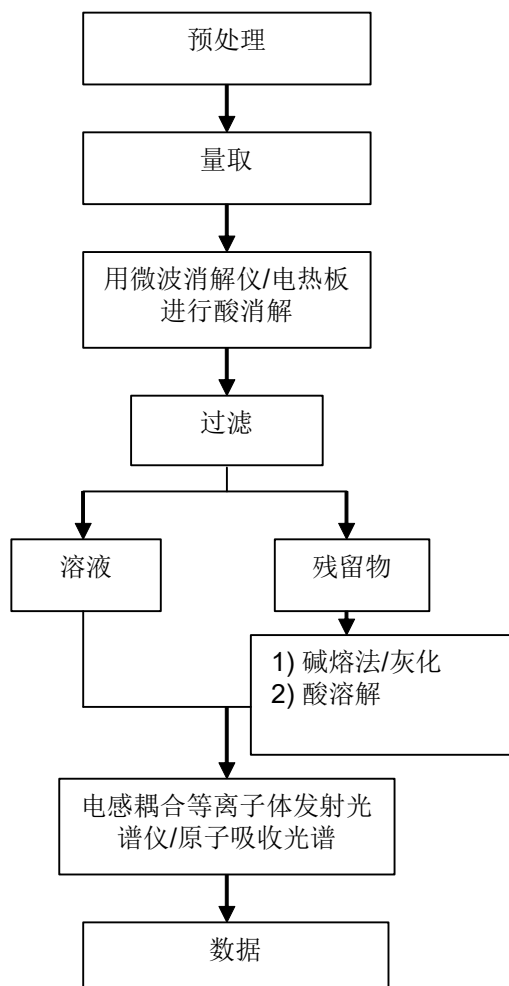


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元素(IEC62321) 检测流程图

1)样品按照下述流程被完全消解



检测报告

编号: TAOEC2306921008

日期: 2023年10月12日 第8页,共8页

样品照片:



此照片仅限于随SGS正本报告使用

*** 报告结束 ***

第八页



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检测报告

编号: TAOEC2306921010

日期: 2023年10月12日 第1页,共4页

客户名称: 济南鲁晶半导体有限公司

客户地址: 济南市高新区飞跃大道2016号创新工场F1/F3

样品名称: 塑封三极管

型号: SOT-23

客户参考信息: 塑封二极管,整流桥, MOS,
DO-41,DO-15,DO-27,R-1,R-6,SMA,SMB,SMC,MBS,MBF,DB,WOM,KBL,KBU,K
BJ,KBP,KBPC,SOT-23,SOT-223,SOT-323,SOT-363,SOT-523,SOT-723,SOT-92
3,SOT-113,SOT-89,
SOD-123,SOD-323,SOD-523,SOD-723,SOD-923,TO-92,TO-126,TO-220,TO-22
0F,TO-251,TO-252,TO-3P,TO-247,TO-263,TO-277,TOLL,DBS,ABS,SOP-4,SO
P-8,DFN,QFN

以上样品及信息由客户提供。

SGS工作编号: QDP23-001244 - QD

样品接收日期: 2023年09月20日

检测周期: 2023年09月20日 - 2023年10月11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

通标标准技术服务(青岛)有限公司
授权签名

Zhang Bo, Justin 张波
批准签署人

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检测报告

编号: TAOEC2306921010

日期: 2023年10月12日 第2页,共4页

检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	TAO23-069210.005	带有银色金属引脚的黑色本体 (混测)

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

卤素

检测方法: 参照EN 14582: 2016方法测定, 采用 IC进行分析.

检测项目	单位	MDL	005
氟(F)	mg/kg	20	ND
氯(Cl)	mg/kg	50	ND
溴(Br)	mg/kg	50	ND
碘(I)	mg/kg	50	ND

备注:

样品的检测是基于申请人要求混合检测, 报告中的混合检测结果不代表其中个别单一材质的含量, 该检测数据仅供参考。

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。

检验检测
Inspection & T
Standards Technic



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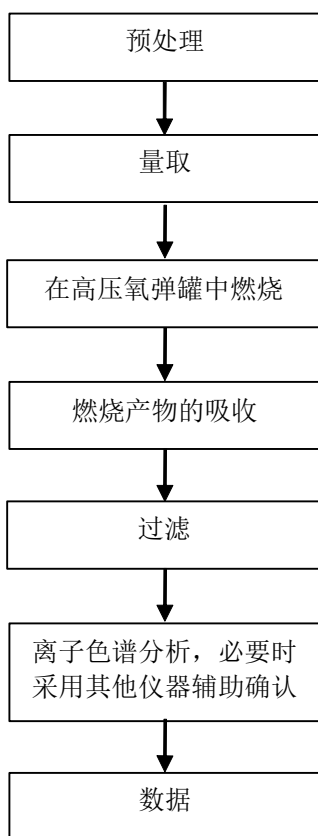
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附件

卤素检测流程图



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专用章
Testing Service
al Services (Q



检测报告

编号: TAOEC2306921010

日期: 2023年10月12日 第4页,共4页

样品照片:



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