

检测报告

编号: SHAEC25019833628

日期: 2025 年 08 月 15 日

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客户名称: 苏州固得电子股份有限公司
客户地址: 苏州市 通安开发区 华金路 200 号

样品名称: 肖特基旁路模块二极管产品
型号: Schottky Bypass Diode Module product
主要成分: 铜, 锡, 环氧
以上样品及信息由客户提供。

SGS 工作编号: SUP25-002863
样品接收时间: 2025 年 08 月 04 日
检测周期: 2025 年 08 月 04 日 ~ 2025 年 08 月 15 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 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	见检测结果
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	见检测结果
元素	见检测结果
卤素	见检测结果
重金属	见检测结果
六溴环十二烷 (HBCDD)	见检测结果

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罗萍

Carol Luo 罗萍
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	A20	SHA25-0198336-0001.C020	黑色本体
SN2	A21	SHA25-0198336-0001.C021	银色镀层
SN3	A22	SHA25-0198336-0001.C022	银色金属
SN4	A23	SHA25-0198336-0001.C023	黑色本体

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

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 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)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 和 IEC 62321-12:2023, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A20	A23
铅 (Pb)	1000	mg/kg	2	9540▲	9090▲
汞 (Hg)	1000	mg/kg	2	ND	-
镉 (Cd)	100	mg/kg	2	ND	-
六价铬 (Cr(VI))	1000	mg/kg	8	ND	-
多溴联苯之和 (PBB)	1000	mg/kg	-	ND	-
一溴联苯 (MonoBB)	-	mg/kg	25	ND	-
二溴联苯 (DiBB)	-	mg/kg	25	ND	-
三溴联苯 (TriBB)	-	mg/kg	25	ND	-
四溴联苯 (TetraBB)	-	mg/kg	25	ND	-
五溴联苯 (PentaBB)	-	mg/kg	25	ND	-
六溴联苯 (HexaBB)	-	mg/kg	25	ND	-
七溴联苯 (HeptaBB)	-	mg/kg	25	ND	-
八溴联苯 (OctaBB)	-	mg/kg	25	ND	-
九溴联苯 (NonaBB)	-	mg/kg	25	ND	-
十溴联苯 (DecaBB)	-	mg/kg	25	ND	-
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND	-
一溴二苯醚 (MonoBDE)	-	mg/kg	25	ND	-
二溴二苯醚 (DiBDE)	-	mg/kg	25	ND	-
三溴二苯醚 (TriBDE)	-	mg/kg	25	ND	-



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检测项目	限值	单位	MDL	A20	A23
四溴二苯醚 (TetraBDE)	-	mg/kg	25	ND	-
五溴二苯醚 (PentaBDE)	-	mg/kg	25	ND	-
六溴二苯醚 (HexaBDE)	-	mg/kg	25	ND	-
七溴二苯醚 (HeptaBDE)	-	mg/kg	25	ND	-
八溴二苯醚 (OctaBDE)	-	mg/kg	25	ND	-
九溴二苯醚 (NonaBDE)	-	mg/kg	25	ND	-
十溴二苯醚 (DecaBDE)	-	mg/kg	25	ND	-
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	-
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	-
邻苯二甲酸二丁酯 (DBP)	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+AMD1:2017, IEC 62321-5:2013 和 IEC 62321-7-1:2015, 采用 ICP-OES/AAS 和 UV-Vis 进行分析。

检测项目	限值	单位	MDL	A21
铅 (Pb)	1000	mg/kg	10	ND
汞 (Hg)	1000	mg/kg	10	ND
镉 (Cd)	100	mg/kg	10	ND
六价铬 (Cr(VI))▼	-	µg/cm ²	0.10	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。

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



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检测项目	限值	单位	MDL	A22
铅 (Pb)	1000	mg/kg	2	13
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))▼	-	μg/cm ²	0.10	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) ▼ =

- 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;
- 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;
- 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。

元素

检测方法: 参考 US EPA 3050B:1996, 采用 ICP-OES/AAS 进行分析。

检测项目	单位	MDL	A22
铍(Be)	mg/kg	5	ND

卤素

检测方法: 参考 EN 14582:2016, 采用 IC 进行分析。

检测项目	单位	MDL	A20
氟 (F)	mg/kg	20	ND
氯 (Cl)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

重金属

检测方法: 酸洗脱镀层, 采用 ICP-OES 进行分析。

检测项目	单位	MDL	A21
铍 (Be)	mg/kg	10	ND

六溴环十二烷 (HBCDD)

检测方法: 参考 US EPA 3550C:2007, 采用 GC-MS 进行分析。



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检测项目	CAS No.	单位	MDL	A20
六溴环十二烷 (HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	mg/kg	10	ND

▲ 根据客户提供的声明, 编号 A20, A23 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)。

更多豁免相关信息, 可以从以下链接获取:

<https://rohs.sgsonline.com.cn/PDFLinks/zh-cn/RSTS-TP-037%20RoHS%20Exemption%20%28CN%29.pdf>

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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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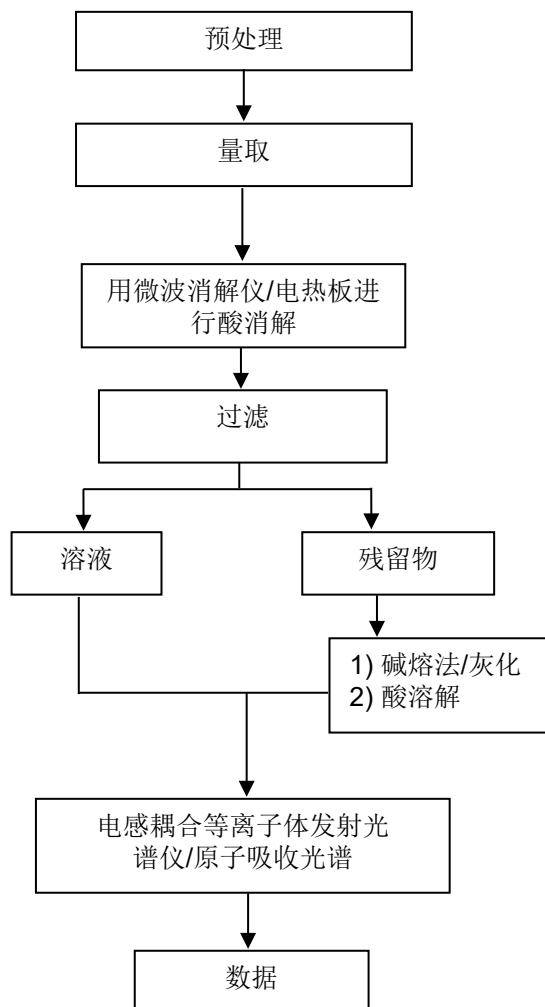
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元素检测流程图

样品按照下述流程被完全消解



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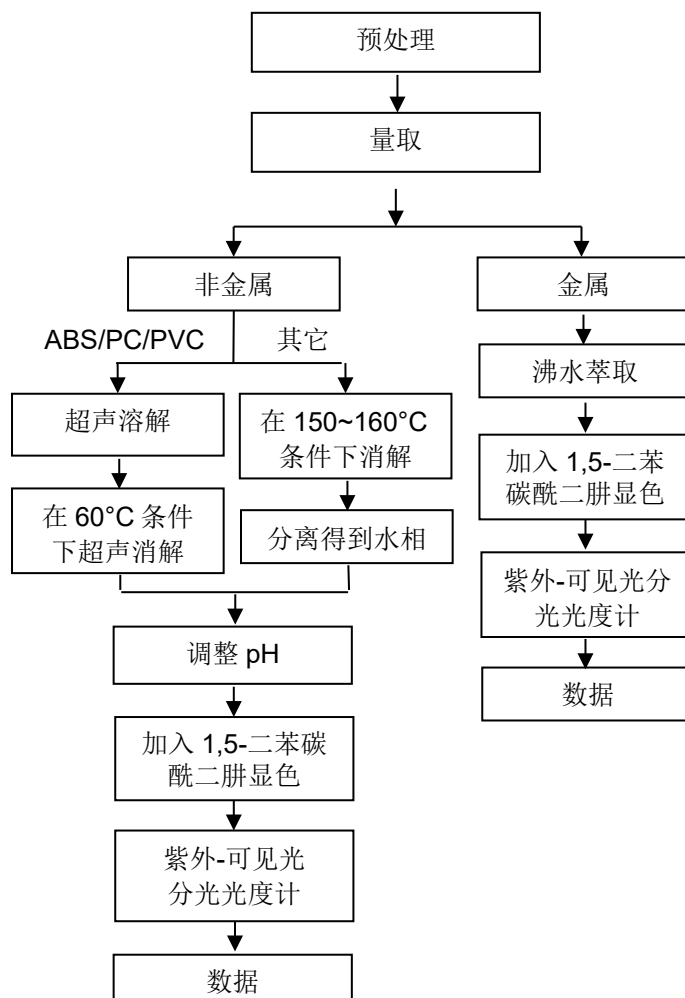
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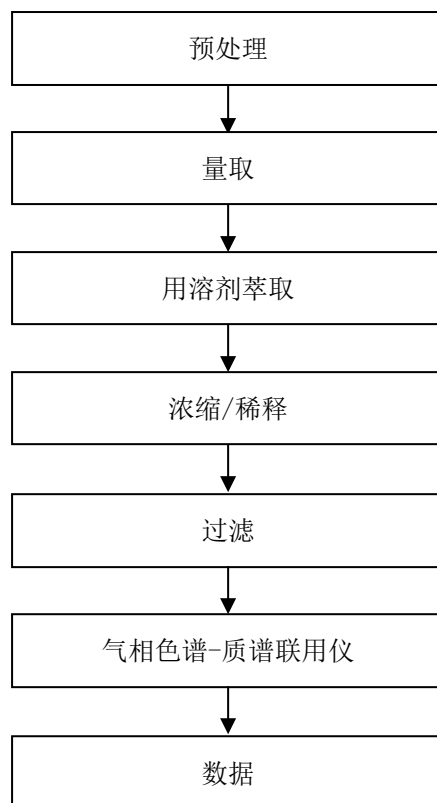
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六价铬检测流程图



PBB/PBDE/Phthalates 检测流程图



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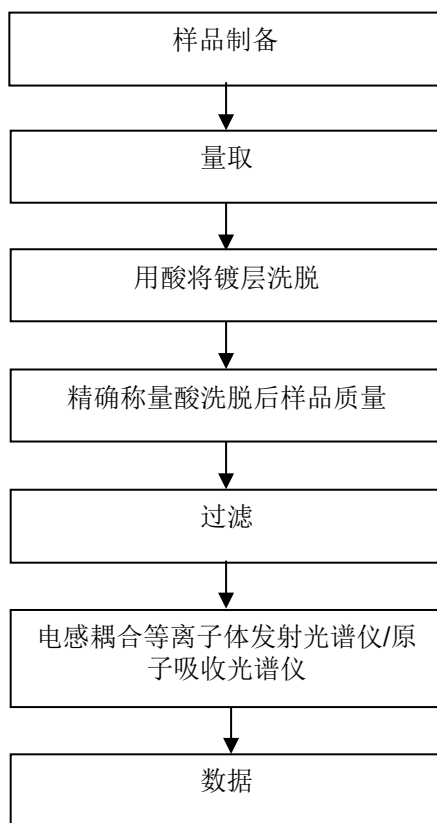
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镀层元素检测流程图



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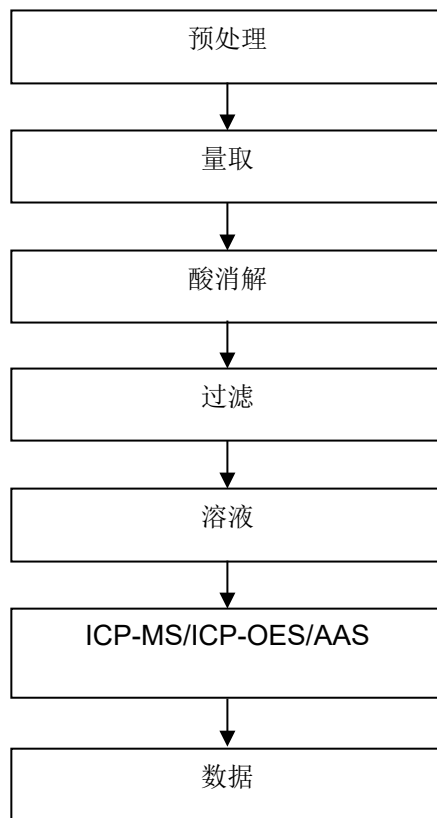
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元素检测流程图



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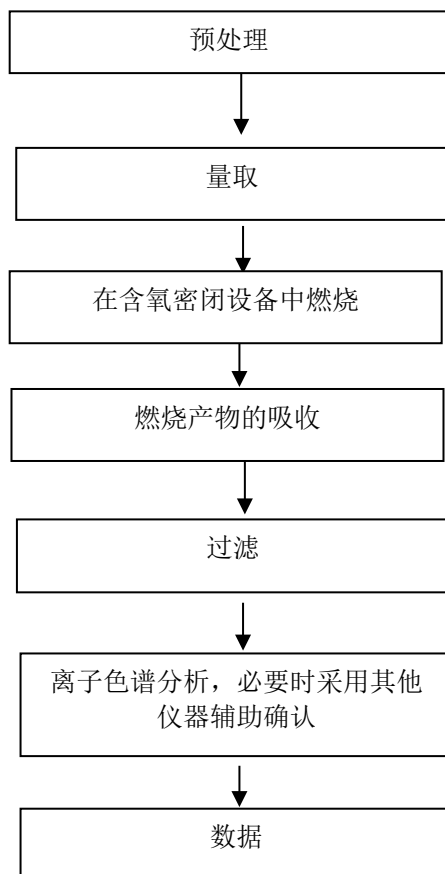
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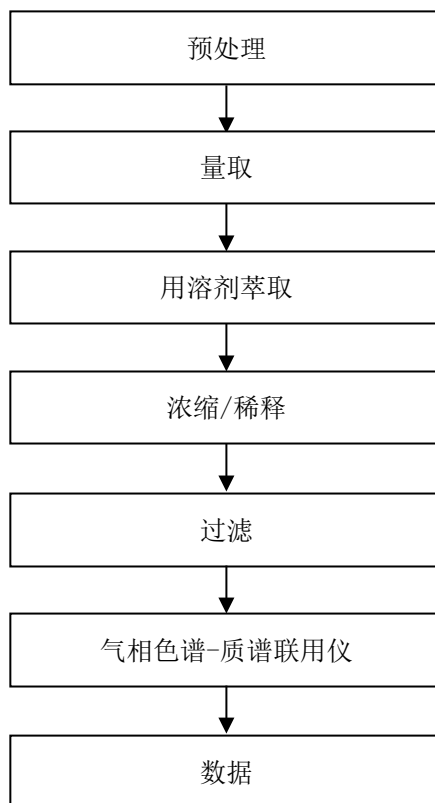
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HBCDD 检测流程图



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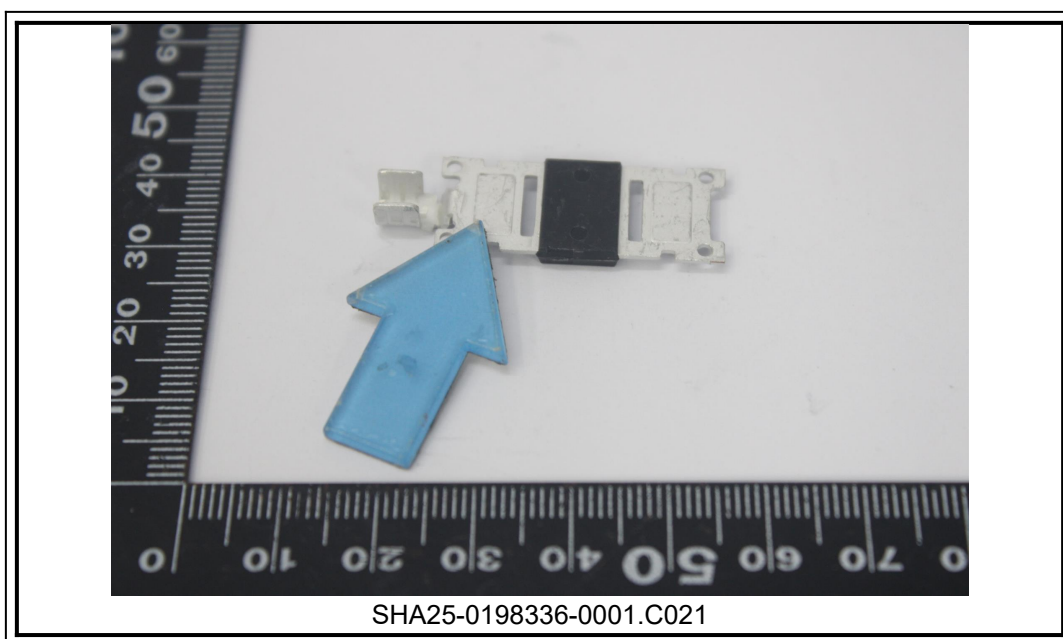
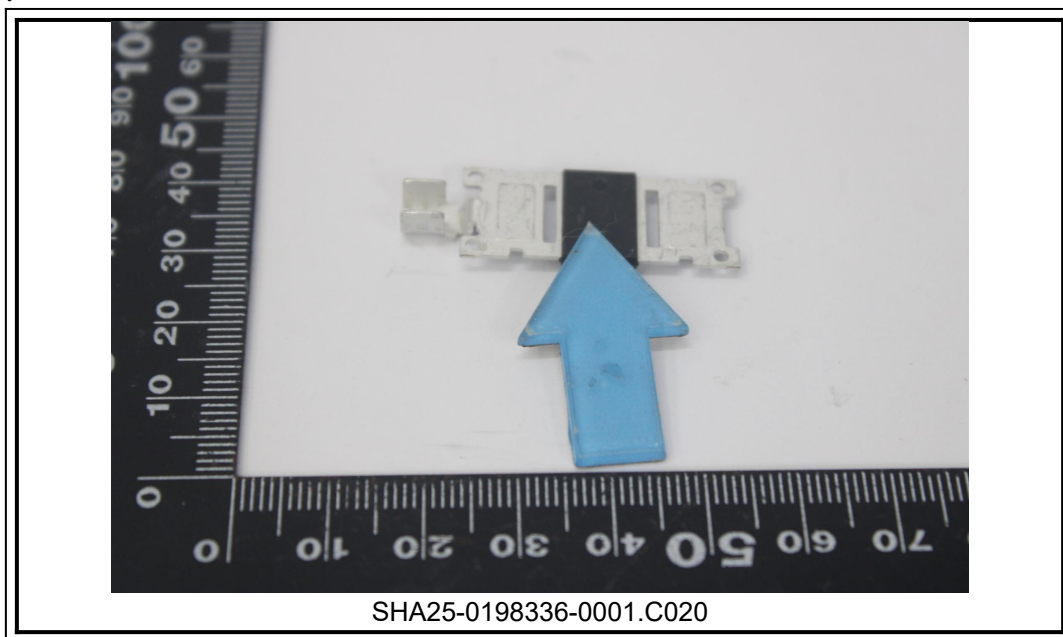
检测报告

编号: SHAEC25019833628

日期: 2025 年 08 月 15 日

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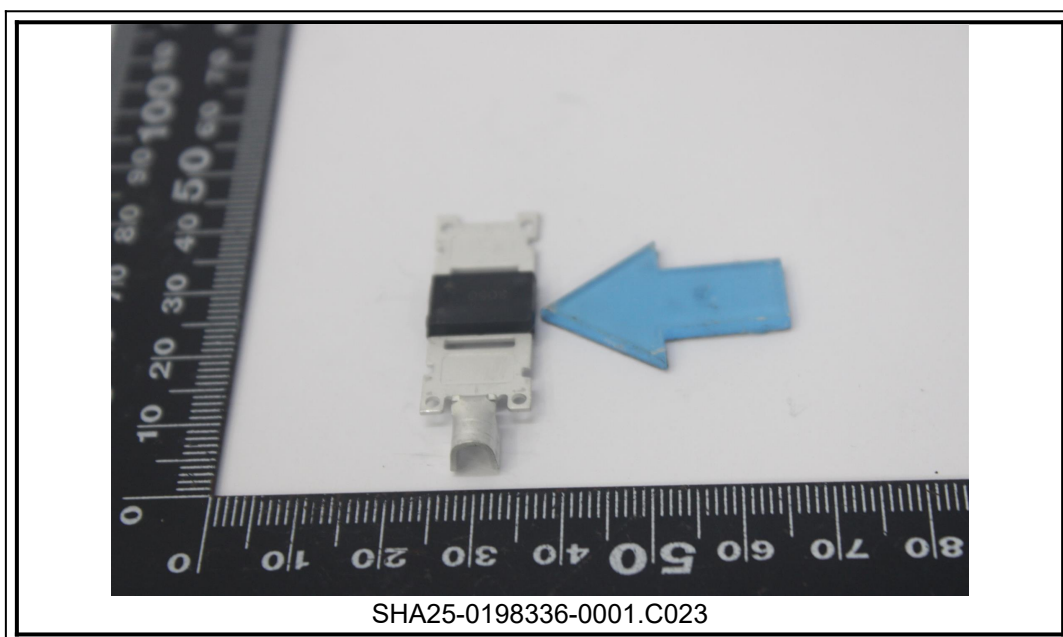
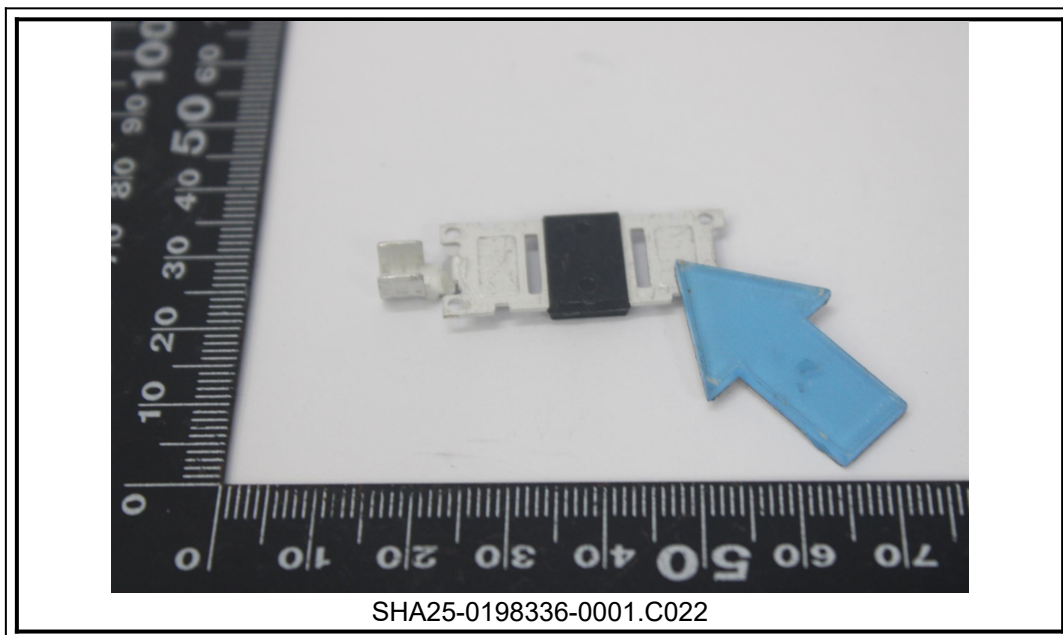
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