

Test Report No.: SZXEC25002751517 **Date**: Aug 06, 2025 Page 1 of 8

Client Name: SHENZHEN LUGUANG ELECTRONIC TECHNOLOGY CO.,LTD.

RIZHAO LUGUANG ELECTRONIC TECHNOLOGY CO.,LTD.

Client Address: 1407, B BLOCK, HAISONG BUILDING, TERRA 9 RD, FUTIAN

DISTRICT, SHENZHEN, CHINA

166, GUILIN ROAD, RIZHAO ECONOMIC DEVELOPMENT ZONE SHANDONG

PROVINCE

Sample Name: DIODES-BRIDGE RECTIFIERS

Model No.: SMA

Client Ref. Information: SOD-123FL,DO-213AA,DO-213AB,SMA,SMAF,SMAJ,SMB,SMBF,

SMC,DO-215AB,DO-218AB,TO-277,TO-251,TO-252,TO-263, TO-220AB,TO-220AC,ITO-220AB,ITO-220AC,TO-247, TO-3P, MBS,MSB,MBF,TBS,ABS,ABF,DB-S,DB-1,D3K,KBP,GBU,GBJ, GBL,GBP,GBPC,GBPC-W,GBPC40,BGPC40-W,RB-15,WOM, RS-1,BR-3,BR-6,BR-8,BR-W,BR-G,BR-GS,BR-GW,BR-L,KBL, KBU,KBJ,KBJ2,KBJ4,KBJ6,KBPC,KBPC-W,HBS,MP,MP-W, SKBL,SKBPC,SGBPC,MB,MT,QL,SQL,MDA/MDC/MDK/MDS/ MDQ,MFC/MFQ,UFT/MXY/MXG/MURH/PDSB/SGBJ,AR/ARS, ARL,R-1,A-405,DO-41,DO-15,DO-15B,DO-15L,R-3,DO-27S,DO-27,

DO-201AE, DO-201AD, R-6, HVM, HVP, HV, HC, RB15

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-038832 Sample Receiving Date: Jul 30, 2025

Testing Period: Jul 30, 2025 ~ Aug 05, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

| Test Requirement | Conclusion |
|--|------------|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU | |
| - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls | |
| (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate | Pass |
| (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl | |
| phthalate (DIBP) | |

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

May

May Bei

Approved Signatory





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| Test Requirement | Conclusion |
|---|------------|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium | Pass |

Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID | Description |
|-------|------------|-------------------------|-------------------|
| SN1 | A4 | SZX25-0027515-0001.C004 | Black body |
| SN2 | A5 | SZX25-0027515-0001.C005 | Silvery metal pin |

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

| Test Item(s) | Limit | Unit(s) | MDL | A4 |
|---|-------|---------|-----|--------|
| Lead (Pb) | 1000 | mg/kg | 2 | 22944▲ |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND |
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/kg | 8 | ND |
| Polybrominated biphenyls (PBB) | 1000 | mg/kg | - | ND |
| Monobrominated biphenyl (MonoBB) | • | mg/kg | 25 | ND |
| Dibrominated biphenyl (DiBB) | - | mg/kg | 25 | ND |
| Tribrominated biphenyl (TriBB) | - | mg/kg | 25 | ND |
| Tetrabrominated biphenyl (TetraBB) | - | mg/kg | 25 | ND |
| Pentabrominated biphenyl (PentaBB) | - | mg/kg | 25 | ND |
| Hexabrominated biphenyl (HexaBB) | - | mg/kg | 25 | ND |
| Heptabrominated biphenyl (HeptaBB) | - | mg/kg | 25 | ND |
| Octabrominated biphenyl (OctaBB) | - | mg/kg | 25 | ND |
| Nonabrominated biphenyl (NonaBB) | - | mg/kg | 25 | ND |
| Decabrominated biphenyl (DecaBB) | - | mg/kg | 25 | ND |
| Polybrominated diphenyl ethers (PBDE) | 1000 | mg/kg | - | ND |
| Monobrominated diphenyl ether (MonoBDE) | - | mg/kg | 25 | ND |
| Dibrominated diphenyl ether (DiBDE) | - | mg/kg | 25 | ND |
| Tribrominated diphenyl ether (TriBDE) | - | mg/kg | 25 | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | - | mg/kg | 25 | ND |
| Pentabrominated diphenyl ether (PentaBDE) | - | mg/kg | 25 | ND |



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| Test Item(s) | Limit | Unit(s) | MDL | A4 |
|---|-------|---------|-----|----|
| Hexabrominated diphenyl ether (HexaBDE) | - | mg/kg | 25 | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | - | mg/kg | 25 | ND |
| Octabrominated diphenyl ether (OctaBDE) | - | mg/kg | 25 | ND |
| Nonabrominated diphenyl ether (NonaBDE) | - | mg/kg | 25 | ND |
| Decabrominated diphenyl ether (DecaBDE) | - | mg/kg | 25 | ND |
| Bis(2-ethylhexyl) phthalate (DEHP) | 1000 | mg/kg | 50 | ND |
| Butyl benzyl phthalate (BBP) | 1000 | mg/kg | 50 | ND |
| Dibutyl Phthalate (DBP) | 1000 | mg/kg | 50 | ND |
| Diisobutyl Phthalate (DIBP) | 1000 | mg/kg | 50 | ND |

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

<u>EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium</u>

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 and IEC 62321-7-1:2015, analysis was performed by ICP-OES/AAS and UV-Vis.

| Test Item(s) | Limit | Unit(s) | MDL | A5 |
|-------------------------------|-------|---------|------|----|
| Lead (Pb) | 1000 | mg/kg | 2 | 15 |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND |
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI))▼ | - | μg/cm² | 0.10 | ND |

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 $\mu g/cm^2$). The coating is considered a non-Cr(VI) based coating.
 - c. The result between 0.10 μ g/cm² and 0.13 μ g/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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Remark ▲: According to the declaration from the client, Lead (Pb) in No.A4 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(a)|: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

More information about exemption can be found via the following link:

https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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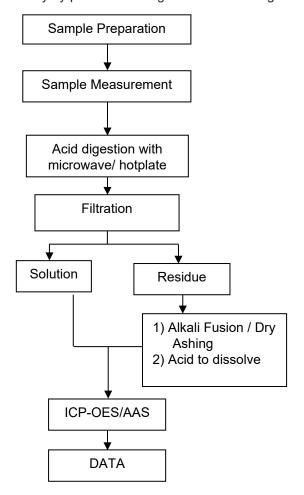
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Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.





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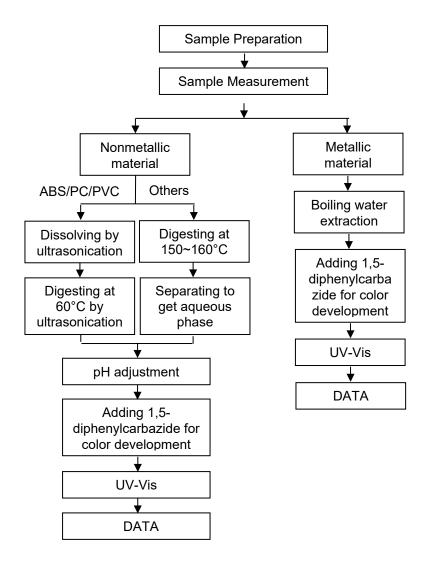


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





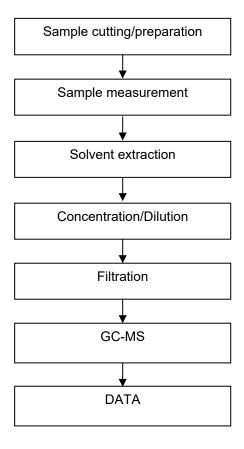
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PBB/PBDE/Phthalates Testing Flow Chart



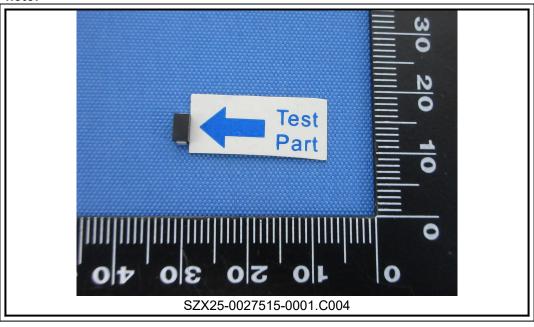


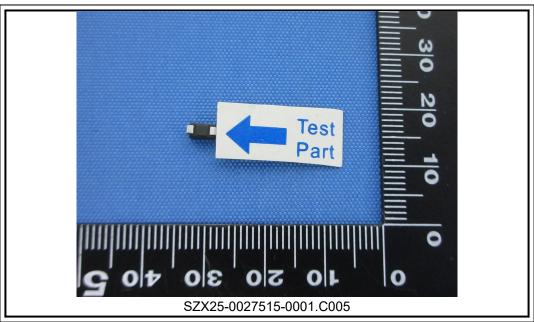
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Sample Photo:





SGS authenticate the photo on original report only

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