Test Report

No.: GZ0802022367/CHEM Date: FEB 25, 2008 Page 1 of 5

SEMTECH ELECTRONICS LIMITED
12-18 BAIYE CHENG ROAD, SHANGTUN INDUSTRIAL ZONE, LIAOBU, DONGGUAN, GUANGDONG, PRC

The following sample(s) was/were submitted and identified on behalf of the applicant as SMD Glass Diodes

SGS Ref No.	: GZ10844227EC-17.12
Sample Receiving Date	: FEB 02, 2008
Further Information Receiving Date	: FEB 15, 2008
Testing Period	: FEB 02, 2008 TO FEB 18, 2008

Test Requested : A: In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

B: To determine the Hexavalent Chromium content in the submitted sample.

Test Method : A: With reference to IEC 62321/2nd CDV (111/95/CDV)
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP-OES.
(2) Determination of Lead by ICP-OES&AAS.
(3) Determination of Mercury by ICP-OES.
(4) Determination of Hexavalent Chromium by Colorimetric Method.
(5) Determination of PBBs and PBDEs by GC-MS.

B: As specified by client, with reference to EPA 3060A: 1996 & EPA 7196A: 1992.
(6) Determination of Hexavalent Chromium by UV-Vis Spectrometry.

Test Results : Please refer to next page.

Conclusion : A: Based on the performed tests on submitted sample(s), the results **comply with** the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.

Huang Fang, Sunny
Sr. Engineer

Test results by chemical method (Unit: mg/kg)

A:

Test Item(s):	Method (refer to)	No.1	No.2	MDL	RoHS Limit
Cadmium(Cd)	(1)	N.D.	N.D.	2	100
Lead (Pb)	(2)	546317 [2]	N.D.	2	1000
Mercury (Hg)	(3)	N.D.	N.D.	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	---	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction	(4)	---	Negative	See Note 5	#
Sum of PBBs		**N.D.**	**---**	-	1000
Monobromobiphenyl		N.D.	---	5	
Dibromobiphenyl		N.D.	---	5	
Tribromobiphenyl		N.D.	---	5	
Tetrabromobiphenyl		N.D.	---	5	
Pentabromobiphenyl		N.D.	---	5	
Hexabromobiphenyl		N.D.	---	5	
Heptabromobiphenyl		N.D.	---	5	
Octabromobiphenyl		N.D.	---	5	
Nonabromobiphenyl		N.D.	---	5	
Decabromobiphenyl		N.D.	---	5	
Sum of PBDEs (Mono to Nona)(Note 4)	(5)	**N.D.**	**---**	-	1000
Monobromodiphenyl ether		N.D.	---	5	
Dibromodiphenyl ether		N.D.	---	5	
Tribromodiphenyl ether		N.D.	---	5	
Tetrabromodiphenyl ether		N.D.	---	5	
Pentabromodiphenyl ether		N.D.	---	5	
Hexabromodiphenyl ether		N.D.	---	5	
Heptabromodiphenyl ether		N.D.	---	5	
Octabromodiphenyl ether		N.D.	---	5	
Nonabromodiphenyl ether		N.D.	---	5	
Decabromodiphenyl ether		N.D.	---	5	
Sum of PBDEs (Mono to Deca)		**N.D.**	**---**	-	-

Note : 1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
5. **Spot-test:**
Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result is negative or cannot be confirmed.)
Boiling-water-extraction:
Negative = Absence of CrVI coating
Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm^2 sample surface area.
6. # = Positive indicates the presence of CrVI on the tested areas.
Negative indicates the absence of CrVI on the tested areas.
7. "-" = Not regulated
8. "---" = Not Conducted
9. Result of Pb (No.1) is only for reference.

B:

Test Item(s):	Method (refer to)	No.2	MDL
Hexavalent Chromium (CrVI) by alkaline extraction	(6)	N.D.	2

Test Part Description:
No.1 Red body (mixed)
No.2 Silvery metal

Note : 1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

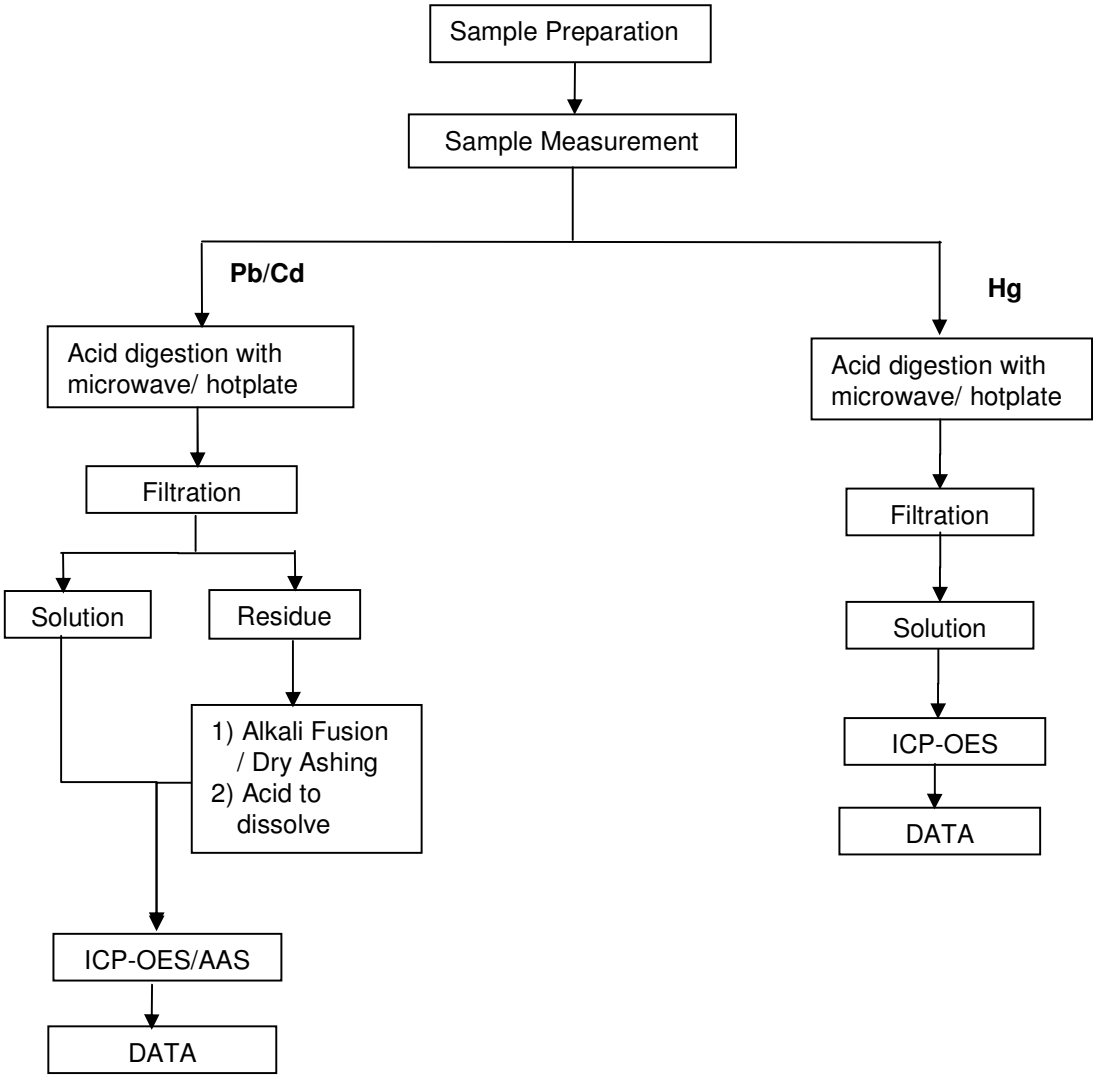
Remark[1]: As requested by client, the test of No.1 was conducted as whole / part sample, for the sample can't be disjointed.

Remark[2]: According to the declaration from client, the source of Lead in No.1 could be from the glass material of that electronic component which is exempted by RoHS regulatory (Directive 2002/95/EC of the European parliament and of The council of 27 January 2003)

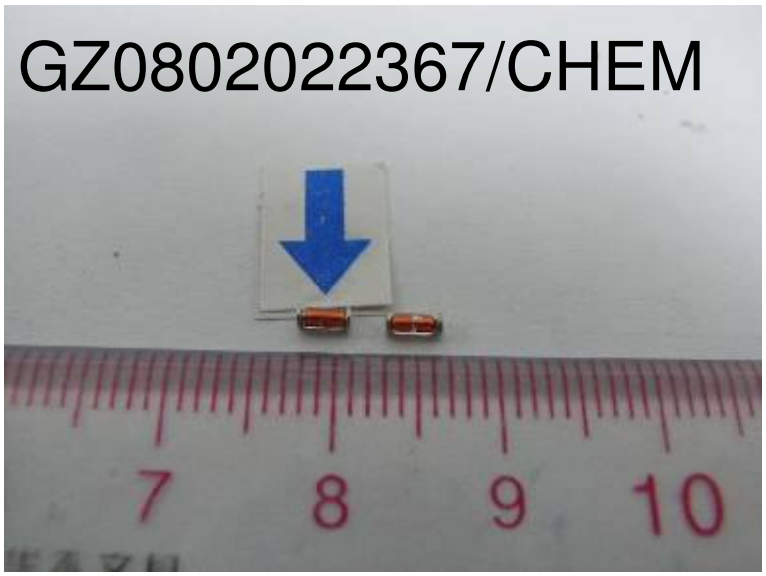
ATTACHMENTS

Testing Flow Chart

1) Name of the person who made measurement: David Shen
2) Name of the person in charge of measurement: Emily Feng



Sample photo :



No.1

No.2

SGS authenticate the photo on original report only

*** End of Report ***