



Product Content Sheet							
<b>Package family</b>	SOT23 3-lead lead-free					Picture of typical product, optional	
<b>Date</b>	July 22, 2004						
<b>Version</b>	A						
Composition part	Material group	Materials	Test report	CAS if applicable	Average mass (weight-%)*	Sum (%)	Traces (PPM)
Nickel	Leadframe			7440-02-0	0.0010 g	12.50	117687
Iron	Leadframe			7439-89-6	0.00138 g	17.30	169351
Silicon	Die			7440-21-3	0.00013g	1.63	15300
Gold	Bondwire			7440-57-5	0.00003 g	0.38	3794
Fused Silica	Encapsulant			60676-86-0	0.0040 g	50.00	490820
Resin - Phenol	Encapsulant				0.0014g	17.50	171359
SbO2	Encapsulant			7440-36-0	0.00010 g	1.25	12240
Carbon Black	Encapsulant			1333-86-4	0.00170 g	21.25	208078
Amines	Encapsulant				0.0011 g	13.75	134639
Tin	Plating			7440-31-5	0.00008 g	1.0	918
						<b>Sum in total</b>	100.00
<p>*)Related to package weight; weight in particular, see corresponding package weight list</p> <p>**)Slug / wire / frame / terminal can be a combination for device leads</p> <p>***)Utilized as flame retardant</p>							

Package Weight List			Important remarks :
Package Family	Pin Count	Weight(grams)	
SOT23	3	0.008	
	<b>Weight range:</b>		
	<b>Fluctuation margin:</b>		
<b>Company</b>	Vishay Siliconix		
<b>Address</b>	2201 Laurelwood Dr Santa Clara, Ca 95054		
<b>E-mail</b>	Dave.macdonald@vishay.com		
<b>Intrnet</b>	www.vishay.com		



**TO:**

**FROM:**

**SUBJECT: Warranty for Non-Inclusion of Hazardous Substances in Products**

**DATE: June 22, 2004**

**Dear Sir/Madam,**

It is the policy of Vishay Siliconix to:

1. Meet all present and future national and international statutory requirements.
2. Regularly and continuously improve the performance of our products, processes, Distribution and operating systems with respect to their impact on the health and Safety of our employees and the public, as well as their impact on the environment.

It is of particular concern to control or eliminate the use of those substances with established hazardous properties.

With this objective we have reviewed our manufacturing processes and materials Against the following directives:

- a) 2000/53/EC End of Vehicle Life Directive (EVL)
- b) 2000/53/EC Annex II to End of Vehicle Life (EVL II)
- c) 2002/95/EC Restriction of the use of Hazardous Substances Directive (RoHS)
- d) 2002/96/EC Waste Electrical and Electronic Equipment (WEEE)
- e) Montreal Agreement (ODS material)

We hereby warrant and guarantee that the customer approved products supplied by our Company comply fully with these directives and do not and will not contain any of the Following substances

- Cadmium and cadmium compounds;
- PBB (polybromobiphenyl) category and PBDE (polybrominated biphenyl ethers)category;
- Pentabromodiphenyl ether (Penta BDE) and Octabromodiphenyl ether (OctaBDE);
- Chlorinated paraffin (chlorine flame retarding materials / plasticizers);
- Polychloriated biphenyl (PCB) category;
- Polychlorinated naphthalene category;
- Organic tin compounds (Tributhyl tin category & Triphenyl tin category);
- Asbestos, and
- Azo compounds.



In making this warranty we use the following exemptions as outlined in EVL II & RoHS.

<b>Materials and Components</b>	<b>Scope of Exemption</b>	<b>Expiration Date of Exemption</b>	<b>Vishay Function/Application</b>
Solder in electronic Circuit boards and other Electric applications	Lead in high melting temperature type solders(i.e. tin-lead solder alloys containing more than 85% lead).	None announced	Internal Die Attach
Electrical components Which contain lead in a glass or ceramic matrix Compound, except glass In bulbs and glaze of Spark plugs.		None announced	Glass passivation at die level.

### Material Declaration

Material Declaration reports on individual part numbers of product families are available using any of the following internationally recognized formats.

	<b>Application</b>	<b>Reference Link</b>
1.	End-Of-Life Vehicles(ELV) Reporting Guideline and Compliance Connect™ Tool	http:
2.	International Material Data System	http:
3.	ZVEI Umbrella Specification	http:

### Lead Free Plating

The position of Vishay Siliconix regarding lead-free terminal plating has been published elsewhere. All products are available with a lead-free finish. Please Contact your Marketing or Customer Service Representative for details.



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