



安全技术说明书 (Safety Data Sheet)

Issue date最初编制日期: 2021/5/24

Revision date修订日期: 2025/3/10

Version版本: 03

1. Product & Manufacturer 产品和厂家

Product Name: SOT-23 epoxy Diode/Transistor

Product Number:

Supplier or Manufacturer: Dongguan Pingjingsemi Technology Co., Ltd

Address: No. 13, Wende Road, Xiaokeng, Liaobu Town, Dongguan City, Guangdong Province

Contact Person: Wu Xiaohong

TEL: 0769-82871832

2. Composition/Information on Ingredients 成分/成分的信息

材料 Material	占总重百分比 Percentage of total weight	化学成分 Chemical composition	CAS NO	占各材料百分比 Percentage of each material
Plating	2.27%	Sn	7440-31-5	99.9918%
		Pb	7439-92-1	0.0035%
		As	7440-38-2	0.0005%
		Fe	7439-89-6	0.0008%
		Cu	7440-50-8	0.0003%
		Bi	7440-69-9	0.0017%
		Sb	7440-36-0	0.0009%
		Zn	7440-66-6	0.0001%
		Al	7429-90-5	0.0001%
		Cd	7440-43-9	0.0003%
Epoxy Molding	59.55%	Silica(Amorphous) A	60676-86-0	85%
		Silica(Amorphous) B	7631-86-9	5%
		Epoxy resin A	TradeSecret	5%
		Epoxy resin B	29690-82-2	2.5%
		Phenol Resin	TradeSecret	1.5%
		Carbon black	1333-86-4	1%
Bonding Wire	4.42%	Cu	7440-50-8	99.99%
		Other	-	0.01%
Adhesive	0.29%	Silver Powder	7440-22-4	80%
		Epoxy Resin	9003-36-5	10%
		Diluent A	TradeSecret	2%
		Diluent B	3101-60-8	2%
		Hardener A	TradeSecret	2%
		Hardener B	TradeSecret	2%
		Solvent	TradeSecret	1%
Organic Peroxide	TradeSecret	1%		
Lead Frame	32.82%	Cu	7440-50-8	96.79%
		Fe	7439-89-6	0.06%
		Si	7440-21-3	0.01%
		Ni	7440-02-0	0.70%
		Sn	7440-31-5	1.5%
		P	7723-14-0	0.02%
		Zn	7440-66-6	0.80%
		Pb	7439-92-1	0.02%
		Ag	7440-22-4	0.10%
Dice	0.65%	Si	7440-21-3	95%
		Other	-	5%

3.Hazards Identification危害辨识

Health effect(s): [Can't eat](#)

Environmental effect(s): [May cause harm to the water environment](#)

Physical and chemical hazard(s):[N/A](#)

Special hazard(s): [When used under reverse voltage and other conditions, it can cause the product to crack, and the cracked fragments can cause harm to personnel.](#)

4.First-aid Measures急救措施

Classification by ways of exposition: [No effect](#)

Inhaled : [N/A](#)

Skin contact: [No effect](#)

Ingested : [N/A](#)

Harmful effect(s) and symptom(s) : [N/A](#)

Protection to the first-aid personnel : [N/A](#)

Note to physicians :[N/A](#)

5.Fire -fighting Measures消防措施

Suitable fire extinguisher(s) : [Any extinguishant including CO2,dry powder ,foam is suitable](#)

Hazardous material(s) released during fire-fighting : [N/A](#)

Precaution : [None](#)

6.Accidental Leak Measures泄露处理方法

Personal precaution : [N/A](#)

Environmental precaution : [N/A](#)

Method(s) for cleaning up : [N/A](#)

7.Safe Handling and Storage Methods安全处置与储存方法

Handling : [No special requirement in handling the goods .Do not discard arbitrarily.Away from the fire](#)

Storing condition : [Temperature: 10-28 °C ; Humidity: 20-60% ; And keep away from direct sunlight and rain,](#)

[Storage period: 5 years](#)

8.Exposition Preventive Measures暴露预防措施

Project control : [N/A](#)

Personal precaution : [N/A](#)

9.Physical and Chemical Properties物理及化学性质

State of matter: [Solid](#) Appearance: [Square](#)

Colour: [Black](#) pH value: [N/A](#)

Solubility in water: [Not soluble](#) Fire point: [500°C](#)

Odor: [None](#) Boiling point/range: [N/A](#)

Decomposition temperature: [N/A](#)

10.Stability and Reactivity稳定性和反应性

Stability : [Stable under normal storage and use](#)

Possible reaction under special condition : [N/A](#)

Material(s) to avoid : [N/A](#)

Conditions to avoid : [Strong acid, strong base](#)

Hazardous product(s)released upon decomposition : [N/A](#)

11.Toxicological Information毒性资料

Acute toxicity : [N/A](#)

Sensitization : [N/A](#)

Chronic toxicity or long-term toxicity : [N/A](#)

Local effect(s): [N/A](#)

Special effect(s) : [N/A](#)

12. Ecological Information 生态信息

Ecological toxicity: harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
forbidden to discharge into sewers, surface water and groundwater.

13. Disposal 废弃

Way of disposal : Follow the regulations of the local government

14 Transportation 运输

Overseas regulation(s) on transportation : N/A

Local regulation(s) on transportation : N/A

UN code : N/A

Way of transportation and precaution :
This is not hazardous product.
waterproof, sunproof and no excessive

15. Regulations 法规

Applicable regulation(s): RoHS Directive (EU) 2015/863

16. Other Information 其他

Other Information : N/A

Prepared by : Yin Liting

Date : 2025/3/10