



## Material Safety Data Sheet Schottky Barrier Diode – SB3100

### 1. Supplier Material

Product name:	Schottky Barrier Diode.
Part number:	SB3100
Supplier:	SIRECTIFIER ELECTRONIC CO., LTD.
Tel:	+886-2-2698-3658
Fax:	+886-2-2698-3656

### 2. Composition/ Information On Ingredients

Material name: Schottky Barrier Diode
Main material harmful ingredient: Not applicable
CAS No. : As below
Content %: As below

Chemistry type:		
Ingredient name.	CAS No.	Concentration (Content %).
Cu	7740-50-8	69.81879
Ti	13463-67-7	0.00121
P	7723-14-0	0.00181
Ag	7440-22-4	0.02127
Si	7440-21-3	0.17633
V	7440-62-2	0.02239
Sn	7440-31-35	0.00295
Ni	7440-02-0	0.01037
Al	7429-90-5	0.02254
Epoxy	29690-82-2	29.92234

### 3. Hazard Identification

Most important harmful effects:
▲ Health danger effect: Not applicable.
▲ Ingestion: Not applicable.
▲ Skin contact: Not applicable.
▲ Eye contact: Not applicable.
▲ Environmental effect: If spilled, clean and scrap under government regulation.
▲ Physical and chemical hazards: Not applicable.
▲ Special hazards: Not applicable.

### 4. Health Hazards and Emergency/ First-Aid Procedure

▲ Breath protection: Remove to fresh air. Get medical attention for any breathing difficulty.
▲ Skin contact: Wash exposed skin with plenty of soap water.
▲ Eye contact: Wash thoroughly with running water. Get medical help.
▲ Ingestion: Unless ingested in large amounts, no first aid is needed.
▲ Most important harmful effect: Don't ventilation and wear goggles and mask.
▲ Protection for first-aid personnel: Dust hazard.
▲ To prompt doctor: Not applicable.

### 5. Fire Fighting Procedure

▲ Suitable fire extinguisher: Normal foam extinguisher or water.
▲ When fire fighting, possible hazard: Heavy smoke.
▲ Special fire fighting procedure: Wear self-contained breathing apparatus and protective clothing.

### 6. Accidental Release Measures

▲ Matters needing individual's special attention: No available data.
▲ Environmental matters needing attention: Store it well under good condition, there is no particular environmental hazard.
▲ Cleaning up method: Sweep the floor, if spilled.

## 7. Safe Handling and Storage Method

▲ Handling: Mask or dust respirator (avoid inhalation of powder).
▲ Storage: Store in warehouse and keep at 0 ~ 70°C
▲ Expiration: 3 years

## 8. Exposure Controls/ Personal Protection

Project control: Install ventilation blower.
Individual prevention: ▲ Breath protection: Ordinary Mask. ▲ Hand protection: Clothes glove ▲ Eye protection: Goggles ▲ Skin and body protection: Wear protective gloves and clean body-covering clothing.
Health measure: No information available.

## 9. Physical and Chemical Properties

State of matter: Solid	Shape: Tablets.
Color: Black	Smell: Not applicable.
pH value: Not applicable.	Boiling point/ boiling point scope: Not applicable.
Decomposition temperature: No information.	Dodges the fire point: No information Test method: No data.
Natural temperature: No information.	Detonation boundary: No data.
Steams the barometric pressure: No data.	Vapor density: No data.
Density: Not applicable.	Solubility: Not applicable.

## 10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.
Under the special condition possibly harms responded: Hazardous polymerization will not occur.
Conditions to avoid: Heat, flame, ignition sources, dust and incompatibles.
Materials to avoid: Addition of amine under uncontrolled condition.
Harm resolvent: HBr(>380°C), Complete combustion will emit carbon dioxide and water when heated to decomposition. Incomplete combustion gives in addition carbon monoxide and oxidation products, including phenols and aldehydes.

## 11. Toxicological Information

Anxious toxicity: Not applicable.
Local effect: No available data.
Sends the sensitivity: No available data.
Slow toxicity or long-term toxicity: Not applicable.
Special effect: No available data.

## 12. Ecological Information

The possible environmental effect/ environment to disseminate: This product can not be disposed directly into the sewage system.

## 13. Disposal Method

Disposal method: Follow government regulations.

## 14. Transportation Information

International shipping stipulations: Not particular.
The United Nations numbers: Not applicable.
Domestic shipping stipulations: Not applicable.
Special shipping method and matters that need attention: Not applicable

## 15. Ships the Material

Is suitable the laws and regulations:  
TSCA: (Toxic substances control act) The ingredients of product are on the 8(b) inventory list.  
EINECS: (European inventory of existing commercial substance) This product complies with the provision of the European inventory.

## 16. Others

Reference	Not applicable.
Scheduling unit	Name: SIRECTIFIER ELECTRONIC CO., LTD.
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Scheduling person	Ernest Lee
Date	Apr. 2009

