

PFC Device Corporation	Product MSDS	Rev. 6
		2014.08.11

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION

Product Name : SCHOTTKY DIODE  
Product Code : P / PT series (TO-277 package wire bond)

### MANUFACTURE

Company Name : PFC Device Corporation  
Address : 3F., No.82, Min-Chuan Rd., Hsin Ten Dist., New Taipei City 23141, Taiwan, R.O.C.  
Responsible Div : QRA  
Telephone : (02) 2218-1555  
Fax : (02) 2218-9160

EMERGENCY TELEPHONE NUMBER : (02) 2218-1555

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Material	Composition(element)	CAS No.	Proportion	Weight(mg)
Dice	Silicon	7440-21-3	99.7%	5.8
	Impure(Al/Ag/Boron/Phosphorous/Copper/Ti/Ni/As...)	N/A	0.3%	
Lead Frame	Copper	7440-50-8	97.4%	29.78
	Iron	7439-89-6	2.5%	
	Phosphorus	7723-14-0	0.04%	
	Zinc	7440-66-6	0.06%	
Solder*	Lead	7439-92-1	92.50%	3.1
	Tin	7440-31-5	5.00%	
	Silver	7440-22-4	2.50%	
Al Ribbon	Aluminium	7429-90-5	100.00%	12.0
Epoxy Molding Compound	Crystalline Silica	60676-86-0	85~90%	41.2
	Epoxy Resin	93705-66-9	4~8%	
	Phenol Resin	26834-02-6	3~6%	
	Carbon Black	1333-86-4	0.1~0.5%	
Plating	Tin	7440-31-5	100.00%	1.12

#### Remark:

\* Solder is exempted from RoHS Directive 2011/65/EU exemption 7(a):  
Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)

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**3. HAZARDS IDENTIFICATION**

Hazard effects  
Human health effects : NA  
Environmental effects : NA  
Class name of hazard : NA

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**4. FIRST AID MEASURES**

Inhalation : NA  
Eye : NA

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**5. FIRE FIGHTING MEASURES**

Measures : Normal foam extinguisher  
Special firefighting procedure : NA  
Equipments : NA

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**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions : NA  
Environment precautions : NA

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**7. HANDLING AND STORAGE**

Handling : NA  
Storage : Room temperature ( 28 °C)and RH < 70%

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**8. EXPOSURE CONTRROLS/PERSONAL PROTECTION**

EXPOSURE LIMIT VALUES : NA

EXPOSURE CONTROLS  
Engineering controls : NA

Personal protection  
Respiratory protection : NA  
Eye protection : NA  
Skin protection : NA

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Rectangle  
Color : Black  
Boiling Point : Not Available  
Melting Point : -  
Density : -  
Vapor Pressure : -  
Vapor Density : Not applicable  
Solubility in water : Insoluble

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**10. STABILTY AND REACTIVITY**

STABILITY : Stability  
MATERIALS TO AVOID : -

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**11. TOXICOLOGICAL INFORMATION**

Acute toxicity : Not available  
Sensitization : Not available  
Chronic Toxicity : Not available  
Mutagen city : Not available  
CarciNotgenicity : Not available  
IARC : Not available  
NTP : Not available  
OSHA : Not available  
Reproductive and Developmental : Not available  
Toxicity : Not available  
Other : Not available

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**12. ECOLOGICAL INFORMATION**

Eco-toxicity -  
Persistence and degradability -  
Bio-accumulative potential -

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13. DISPOSAL CONSIDERATION

Disposal method : Follow Government Regulations  
Special control industrial disposal : Not applicable

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14. TRANSPORT INFORMATION

UN sorts : Not applicable  
Domestic regulation : Not applicable  
Special safety measurement and condition : Not applicable

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15. REGULATORY INFORMATION

NA

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16. OTHER INFORMATION

NA

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