

PFC Device Corporation	Product MSDS	Rev. 6
		2014. 08. 01

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

Product Name : SCHOTTKY DIODE  
Product Code : PFR/PTR series (ITO-220)

MANUFACTURE

Company Name : PFC Device Corporation Taiwan Branch  
Address : 3F., No.82, Min-Chuan Rd., Hsin-Ten Dist., New Taipei City 23141, Taiwan, R.O.C.  
Responsible Div : QRA  
Telephone : +886-2-2218-1555  
Fax : +886-2-2218-9160

EMERGENCY TELEPHONE NUMBER : +886-2-2218-1555

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Material	Composition(element)	CAS No.	Proportion	Weight (mg)
Chip	Silicon (Si)	7440-21-3	99.7%	14.0
	Impure(Al/Ag/Boron/Phosphorous/Copper/Ti/Ni/As ...)		0.3%	
Lead Frame	Copper (Cu)	7440-50-8	99.89%	655.0
	Iron (Fe)	7439-89-6	0.1%	
	Phosphorus (P)	7723-14-0	0.01%	
Solder Wire*	Lead (Pb)	7439-92-1	92.50%	6.0
	Tin (Sn)	7440-31-5	5.00%	
	Silver (Ag)	7440-22-4	2.50%	
Al Wire	Aluminum (Al)	7429-90-5	100.00%	25.0
Epoxy Molding Compound	Crystalline Silica	14808-60-7	60% ~80%	1018.0
	Fused Silica	60676-86-0	0% ~15%	
	Epoxy Resin	37382-79-9	5% ~15%	
	Phenol Resin	9003-35-4	5% ~10%	
Plating	Carbon Black	1333-86-4	0.1% ~0.5%	25.0
	Tin (Sn)	7440-31-5	100.00%	

Remark:

\* Solder wire 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 < 60%

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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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