

# PFW5020, PFW5024, PFW5036

### 50A AVALANCHE 1/2" WASHER LEAD PRESS-FIT DIODE

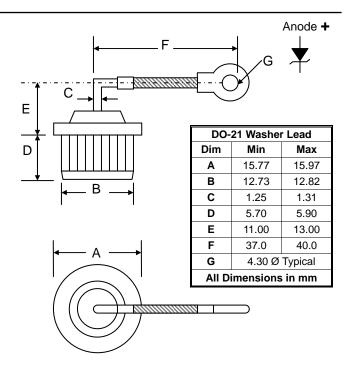


#### **Features**

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR less than 200nA

#### **Mechanical Data**

- Case: Copper Case and Components Hermetically Sealed
- Terminals: Insulated Wire with Washer Lead
- Polarity: Cathode to Case (Reverse Units Are Available Upon Request and Are Designated By A "R" Suffix, i.e. PFW5020R or PFW5024R)
- Polarity: Red Color Equals Standard, Black Color Equals Reverse Polarity
- Mounting Position: Any
- Lead Free: For RoHS / Lead Free Version,
   Add "-LF" Suffix to Part Number, See Page 2



## Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	PFW5020	PFW5024	PFW5036	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	16	20	32	V
Average Rectified Output Current @T <sub>C</sub> = 150°C		lo	50			Α
Breakdown Voltage Min. Breakdown Voltage Max.	@I <sub>R</sub> = 100mA @I <sub>R</sub> = 100mA	VBR	20 26	24 32	36 42	V
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		IFSM	500		А	
Forward Voltage	$@I_F = 50A$	VFM	1.0		V	
Peak Reverse Current At Rated DC Blocking Voltage @T <sub>A</sub> = 25°C		IRM	200		nA	
Typical Junction Capacitance (Note 1)		CJ	400		pF	
Typical Thermal Resistance (Note 2)		R JC	1.0		°C/W	
Operating and Storage Temperature Range		TJ, TSTG	-65 to +175		°C	

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance: Junction to case, single side cooled.



#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity	
PFW5020	DO-21 Washer Lead Press-Fit	100 Units/Box	
PFW5024	DO-21 Washer Lead Press-Fit	100 Units/Box	
PFW5036	DO-21 Washer Lead Press-Fit	100 Units/Box	

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, PFW5020-LF.

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**WARNING**: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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