

PFW5020 & PFW5024

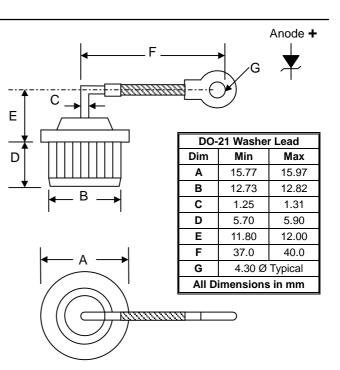
50A AVALANCHE 1/2" WASHER LEAD PRESS-FIT DIODE

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 @T_A=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	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	16	20	v
Average Rectified Output Current	@T _c = 150°C	lo	50 A		А
Breakdown Voltage Min. Breakdown Voltage Max.	@I _R = 100mA @I _R = 100mA	Vbr	20 26	24 32	V
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	500		A
Forward Voltage	@I _F = 50A	Vfm	1	.0	V
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C	Iгм	200 n <i>A</i>		nA
Typical Junction Capacitance (Note 1)		Cj	400		pF
Typical Thermal Resistance (Note 2)		R	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	

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

2. 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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