PFW3500 – PFW3510

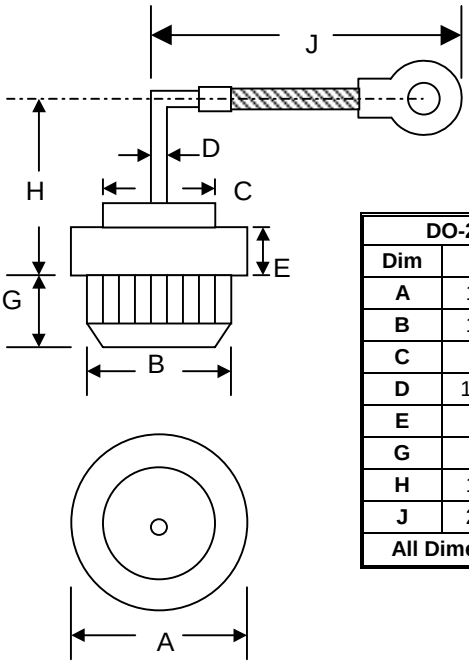
35A 1/2" FLAG LEAD PRESS-FIT DIODE

Features

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical I_R less than 10µA

Mechanical Data

- Case: All Copper Case and Components Hermetically Sealed
- Terminals: Contact Areas Readily Solderable
- Polarity: Cathode to Case(Reverse Units Are Available Upon Request and Are Designated By An "R" Suffix, i.e. PFW3502R or PFW3510R)
- Polarity: Red Color Equals Standard, Black Color Equals Reverse Polarity
- Mounting Position: Any



DO-21 Flag Lead		
Dim	**Min**	**Max**
A	15.63	16.14
B	12.75	12.83
C	8.89	10.04
D	1.25 Ø	1.30Ø
E	3.05	3.30
G	5.59	6.10
H	10.42	12.45
J	26.10	27.40
All Dimensions in mm		

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	PFW3500	PFW3501	PFW3502	PFW3504	PFW3506	PFW3508	PFW3510	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current @T_A = 150°C	I_O	35							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	400							A
Forward Voltage @I_F = 80A	V_{FM}	1.08							V
Peak Reverse Current @T_A = 25°C At Rated DC Blocking Voltage @T_A = 100°C	I_{RM}	10 500							µA
Typical Junction Capacitance (Note 1)	C_j	300							pF
Typical Thermal Resistance Junction to Case (Note 2)	$R_{\theta JC}$	1.2							K/W
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +175							°C

***Glass passivated forms are available upon request**

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.

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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
PFW3500	Press Fit	100 Units/Tray
PFW3501	Press Fit	100 Units/Tray
PFW3502	Press Fit	100 Units/Tray
PFW3504	Press Fit	100 Units/Tray
PFW3506	Press Fit	100 Units/Tray
PFW3508	Press Fit	100 Units/Tray
PFW3510	Press Fit	100 Units/Tray

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

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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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We power your everyday.

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