

PF5000 – PF5010

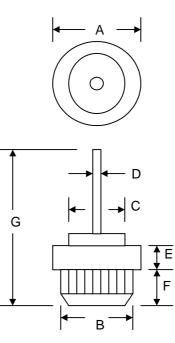
50A 1/2" PRESS-FIT DIODE

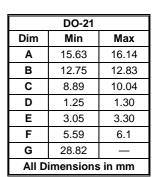
Features

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR 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. PF5002R or PF5010R)
 Polarity: Red Color Equals Standard,
- Black Color Equals Reverse Polarity
- Mounting Position: Any





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	PF5000	PF5001	PF5002	PF5004	PF5006	PF5008	PF5010	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _A = 150°C	ю	50				А			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	500				A			
Forward Voltage $@I_F = 100A$	VFM	1.08				V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	10 500				μA			
Typical Junction Capacitance (Note 1)	Cj	300			pF				
Typical Thermal Resistance Junction to Case (Note 2)	R θ JC	1.2			K/W				
Operating and Storage Temperature Range	TJ, TSTG	-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.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity			
PF5000	Press Fit	100 Units/Tray			
PF5001	Press Fit	100 Units/Tray			
PF5002	Press Fit	100 Units/Tray			
PF5004	Press Fit	100 Units/Tray			
PF5006	Press Fit	100 Units/Tray			
PF5008	Press Fit	100 Units/Tray			
PF5010	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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