

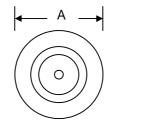
PF5000 − PF5006 RoHS



50A 1/2" PRESS-FIT DIODE

Features

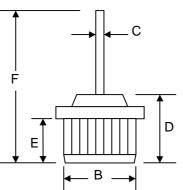
- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR less than 5.0µA





Mechanical Data

- Case: DO-21, 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 A "R" Suffix, i.e. PF5002R or PF5004R)
- 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



DO-21						
Dim	Min	Max				
Α	15.77	15.97				
В	12.73	12.82				
С	1.25	1.31				
D	9.55	9.85				
Е	5.70	5.90				
F	28.00	_				
All Dimensions in mm						

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	PF5000	PF5001	PF5002	PF5003	PF5004	PF5005	PF5006	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	300	400	500	600	V
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	350	420	٧
Average Rectified Output Current @T _C = 150°C	lo	50						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	500					Α		
Forward Voltage @I _F = 50A	VFM	1.0			V				
	IRM	5.0 500					μΑ		
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
PF5000	DO-21 Press-Fit	100 Units/Box
PF5001	DO-21 Press-Fit	100 Units/Box
PF5002	DO-21 Press-Fit	100 Units/Box
PF5003	DO-21 Press-Fit	100 Units/Box
PF5004	DO-21 Press-Fit	100 Units/Box
PF5005	DO-21 Press-Fit	100 Units/Box
PF5006	DO-21 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, PF5000-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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We power your everyday.