

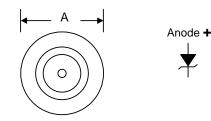




50A AVALANCHE 1/2" PRESS-FIT DIODE

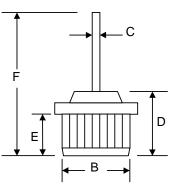
Features

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



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. PF5020R or PF5024R)
- 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			
E	5.70	5.90			
F	28.00	_			
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	PF5020	PF5024	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		Α
Breakdown Voltage Min. Breakdown Voltage Max.	@I _R = 100mA @I _R = 100mA	VBR	20 26	24 32	V
Non-Repetitive Peak Forward Surge 0 8.3ms Single half sine-wave superimprated load (JEDEC Method)		IFSM	50	00	А
Forward Voltage	@I _F = 50A	VFM	1	.0	V
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C	Irm	20	00	nA
Typical Junction Capacitance (Note 1)		Cj	400		pF
Typical Thermal Resistance (Note 2)		RθJC	1.0		°C/W
Operating and Storage Temperature Range		Тл, Тѕтс	-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
PF5020	DO-21 Press-Fit	100 Units/Box
PF5024	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, PF5020-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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