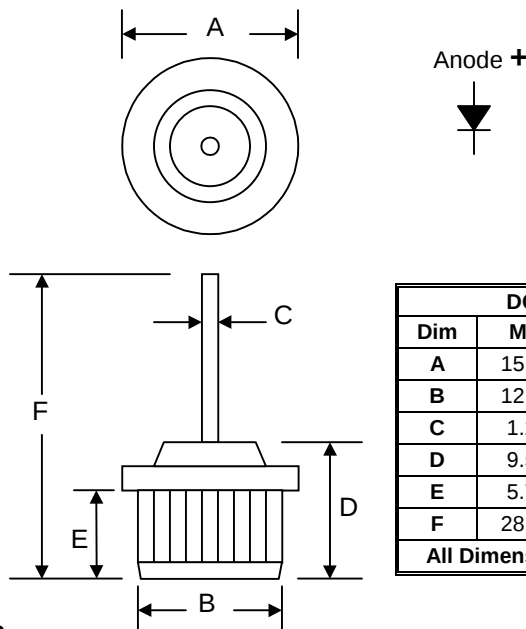


Features

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical I_R less than $5.0\mu A$

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
A	15.77	15.97
B	12.73	12.82
C	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 @ $T_A=25^\circ C$ 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	V_{RRM} V_{RWM} V_R	50	100	200	300	400	500	600	V
RMS Reverse Voltage	$V_R(RMS)$	35	70	140	210	280	350	420	V
Average Rectified Output Current @ $T_C = 150^\circ C$	I_O	50							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	500							A
Forward Voltage @ $I_F = 50A$	V_{FM}	1.0							V
Peak Reverse Current @ $T_A = 25^\circ C$ At Rated DC Blocking Voltage @ $T_A = 100^\circ C$	I_{RM}	5.0 500							μA
Typical Junction Capacitance (Note 1)	C_j	400							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	1.0							$^\circ C/W$
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +175							$^\circ C$

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

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, PF5000-LF.**

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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.