

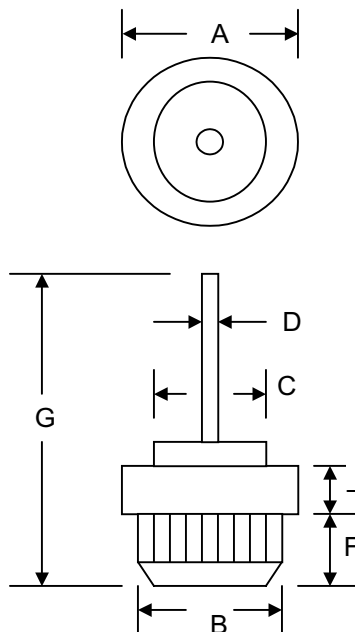
Data Sheet 2519 Rev.—

Features

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR less than 10 μ A

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



DO-21		
Dim	Min	Max
A	0.615(15.63)	0.365(16.14)
B	0.502(12.75)	0.505(12.83)
C	0.350(8.89)	0.395(10.04)
D	0.049(1.25)	0.051(1.30)
E	0.120(3.05)	0.130(3.30)
F	0.220(5.59)	0.240(6.10)
G	1.135(28.82)	—
All Dimensions in inch(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	PF5000	PF5001	PF5002	PF5004	PF5006	PF5008	PF5010	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	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 = 100A	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 _{θJC}	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.