

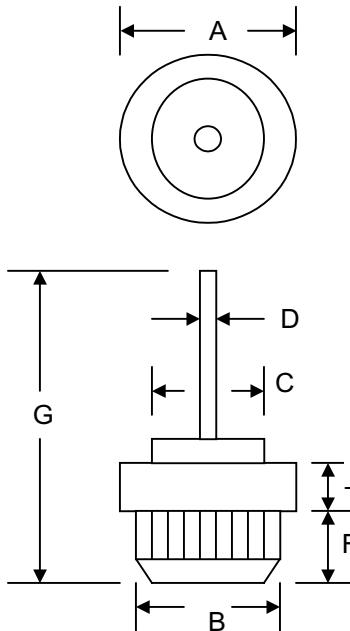
## Data Sheet 2519 Rev.—

## Features

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR less than 10 $\mu$ 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 @ $T_A=25^\circ\text{C}$  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	$V_{RRM}$								
Working Peak Reverse Voltage	$V_{RWM}$	50	100	200	400	600	800	1000	V
DC Blocking Voltage	$V_R$								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current @ $T_A = 150^\circ\text{C}$	$I_o$					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 @ $I_F = 100\text{A}$	$V_{FM}$					1.08			V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	$I_{RM}$					10			$\mu\text{A}$
						500			
Typical Junction Capacitance (Note 1)	$C_j$					300			pF
Typical Thermal Resistance Junction to Case (Note 2)	$R_{\theta JC}$					1.2			K/W
Operating and Storage Temperature Range	$T_J, T_{STG}$					-65 to +175			$^\circ\text{C}$

## \*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.