

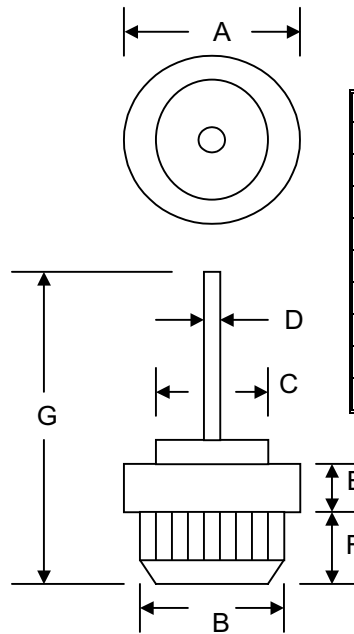
**Data Sheet 2518 Rev.—**

**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. PF3502R or PF3510R)
- 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<sub>A</sub>=25°C unless otherwise specified**

Single Phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

Characteristic	Symbol	PF3500	PF3501	PF3502	PF3504	PF3506	PF3508	PF3510	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>								
Working Peak Reverse Voltage	V <sub>RWM</sub>	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V <sub>R</sub>								
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current @T <sub>A</sub> = 150°C	I <sub>o</sub>	35							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	400							A
Forward Voltage @I <sub>F</sub> = 80A	V <sub>FM</sub>	1.08							V
Peak Reverse Current @T <sub>A</sub> = 25°C	I <sub>RM</sub>	10							$\mu$ A
At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C		500							
Typical Junction Capacitance (Note 1)	C <sub>j</sub>	300							pF
Typical Thermal Resistance Junction to Case (Note 2)	R <sub><math>\theta</math>JC</sub>	1.2							K/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-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.