

# PF3520, PF3524, PF3536

#### 35A AVALANCHE 1/2" PRESS-FIT DIODE

Anode +

Dim

Α

В

С

D

Е

F

D

DO-21

Min

15.77

12.73

1.25

9.55

5.70

28.00

All Dimensions in mm

А

Ο

В

С

KOHS Pb

Max

15.97

12.82

1.31

9.85

5.90

### 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
- Available Opon Request and Are Designate By A "R" Suffix, i.e. PF3520R or PF3524R)
   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

# 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	PF3520	PF3524	PF3536	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	16	20	32	V
Average Rectified Output Current	@T <sub>c</sub> = 150°C	lo		35		А
Breakdown Voltage Min. Breakdown Voltage Max.	@I <sub>R</sub> = 100mA @I <sub>R</sub> = 100mA	Vbr	20 26	24 32	36 42	V
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		IFSM	400		А	
Forward Voltage	@I <sub>F</sub> = 35A	Vfm	1.0		V	
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C	lгм		200		nA
Typical Junction Capacitance (Note 1)		CJ	300		pF	
Typical Thermal Resistance (Note 2)		R JC	1.2		°C/W	
Operating and Storage Temperature Range		TJ, TSTG	-65 to +175		°C	

F

Е

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		
PF3520	DO-21 Press-Fit	120 Units/Box		
PF3524	DO-21 Press-Fit	120 Units/Box		
PF3536	DO-21 Press-Fit	120 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, PF3520-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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