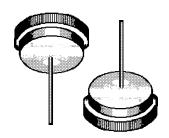
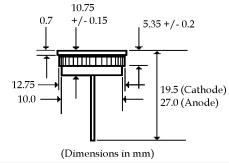
## **FASTORB - 35 Amp Press Fit Avalanche AUTOMOTIVE RECTIFIERS**

## **Description**

## **Mechanical Dimensions**

PFR3523





## **Features**

- **INEXPENSIVE**
- GLASS PASSIVATED DIE

**AVALANCHE VOLTAGE 19.8 TO 26.2 VOLTS** 

		PFR3523				
Maximum Ratings			Symbol	Value	Units	
Peak Repetitive Reverse Voltage			$V_{RRM}$	16	Volts	
Working Peak Reverse Voltage			V <sub>RWM</sub>	16	Volts	
DC Blocking Voltage			V <sub>DC</sub>	16	Volts	
Repetitive Peak Reverse Surge Current Time Constant = 10 ms, Duty Cycle 1%, T <sub>C</sub> = 25°C (See Fig. 1)			I <sub>RSM</sub>	150	Amps	
Average Forward Rectified Current Single Phase, Resistive Load, 60 Hz, $T_c = 150$ °C			I <sub>o</sub>	35	Amps	
Non-Repetitive Peak Forward Surge Current Surge Supplied @ Rated Load Conditions, ½ Wave, Single Phase			I <sub>FSM</sub>	400	Amps	
Operating & Storage Temperature Range			T <sub>J</sub> , T <sub>STRG</sub>	-40 to 200	°C	
Thermal Resistance, Junction to Lead	Length	Max.	Units	I <sub>RRM</sub> (EXP)		
Both Equal Length Leads to Heat Sink $R_{_{\theta JL}}$	1/4" 3/4" 8 1/2"	7.5 10 13	°C / W °C / W °C / W	I <sub>RRM</sub> (	(EXP)	
Thermal Resistance, Junction to Case $R_{_{\theta JC}}$		.8 Тур	°C/W	O 10 30 50 Surge Current Characteristics		
Electrical Characteristics				Min.	Max.	Units
Instantaneous Forward Voltage ( $I_F = 100 \text{ Amps}$ , PW = 30 $\mu s$ , $T_C = 25^{\circ} \text{C}$ ) $V_F$				N/A	1.18	Volts
Instantaneous Reverse Current ( $V_R = 16 V_{DC}$ , $T_C = 25^{\circ}C$ ) $I_R$				N/A	1.0	μAmps
Breakdown Voltage ( $I_R = 100 \text{ mAmps}, T_C = 25^{\circ}\text{C}$ ) $V_{BR}$				19.8	26.2	Volts
Clamping Voltage ( $I_R = 65 \text{ Amps}$ , $T_C = 150^{\circ}\text{C}$ , PW = $80 \text{ µs}$ ) $V_{BR}$				N/A	35	Volts
Typical Breakdown Voltage Temperature CoefficientV <sub>(br)</sub> T <sub>C</sub>				N/A N/A	0.096 2	% / °C mV / °C
Typical Forward Voltage Temperature Coefficient( $I_F = 10 \text{ mA}$ ) $V_{F(tc)}$				IV/A	۷	1110 / 0