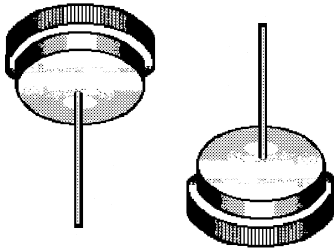


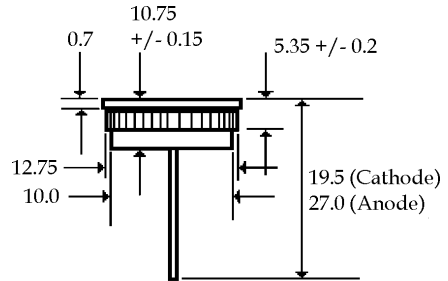
# FASTORB - 25 Amp Press Fit Avalanche **AUTOMOTIVE** RECTIFIERS

**PFR2523**

## Description



## Mechanical Dimensions



(Dimensions in mm)

## Features

■ **INEXPENSIVE**

■ **GLASS PASSIVATED DIE**

■ **AVALANCHE VOLTAGE 19.8 TO 26.2 VOLTS**

### PFR2523

Maximum Ratings	Symbol	Value	Units
Peak Repetitive Reverse Voltage	$V_{RRM}$	16	Volts
Working Peak Reverse Voltage	$V_{RWM}$	16	Volts
DC Blocking Voltage	$V_{DC}$	16	Volts
Repetitive Peak Reverse Surge Current Time Constant = 10 ms, Duty Cycle 1%, $T_C = 25^\circ\text{C}$ (See Fig. 1)	$I_{RSM}$	150	Amps
Average Forward Rectified Current Single Phase, Resistive Load, 60 Hz, $T_C = 150^\circ\text{C}$	$I_O$	25	Amps
Non-Repetitive Peak Forward Surge Current @ Rated Load Conditions, 1/2 Wave, Single Phase	$I_{FSM}$	400	Amps
Operating & Storage Temperature Range	$T_J, T_{STRG}$	-40 to 200	$^\circ\text{C}$

	Length	Max.	Units
Thermal Resistance, Junction to Lead			
Both Equal Length Leads to Heat Sink	1/4"	7.5	$^\circ\text{C} / \text{W}$
$R_{\theta JL}$	3/8"	10	$^\circ\text{C} / \text{W}$
	1/2"	13	$^\circ\text{C} / \text{W}$
Thermal Resistance, Junction to Case		.8 Typ	$^\circ\text{C} / \text{W}$
$R_{\theta JC}$			

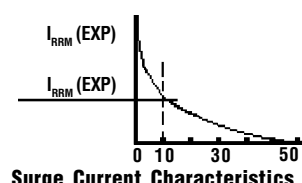


Fig. 1

Surge Current Characteristics

Electrical Characteristics	Min.	Max.	Units
Instantaneous Forward Voltage ( $I_F = 100$ Amps, $PW = 30 \mu\text{s}$ , $T_C = 25^\circ\text{C}$ )... $V_F$	N/A	1.15	Volts
Instantaneous Reverse Current ( $V_R = 16 V_{DC}$ , $T_C = 25^\circ\text{C}$ )... $I_R$	N/A	1.0	$\mu\text{Amps}$
Breakdown Voltage ( $I_R = 100$ mAmps, $T_C = 25^\circ\text{C}$ )... $V_{BR}$	19.8	26.2	Volts
Clamping Voltage ( $I_R = 65$ Amps, $T_C = 150^\circ\text{C}$ , $PW = 80 \mu\text{s}$ )... $V_{BR}$	N/A	35	Volts
Typical Breakdown Voltage Temperature Coefficient... $V_{(br)T_C}$		0.096	% / $^\circ\text{C}$
Typical Forward Voltage Temperature Coefficient...( $I_F = 10$ mA) $V_{F(tc)}$		2	mV / $^\circ\text{C}$