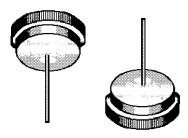
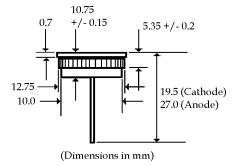


Description



50 Amp Press Fit Avalanche AUTOMOTIVE RECTIFIERS

Mechanical Dimensions



Features

- **INEXPENSIVE**
- GLASS PASSIVATED DIE

■ AVALANCHE VOLTAGE 19.8 TO 26.2 VOLTS

	PFR5023						
Maximum Ratings			Symbol	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	Vo	olts	
Repetitive Peak Reverse Surge Current Time Constant = 10 ms, Duty Cycle 1%, T _c = 25°C (See Fig. 1)			I _{RSM}	150	Amps		
Average Forward Rectified Current Single Phase, Resistive Load, 60 Hz, T _C = 150°C Non-Repetitive Peak Forward Surge Current Surge Supplied @ Rated Load Conditions, ½ Wave, Single Phase			I _o	50	Amps		
			I _{FSM}	400	Amps		
Operating & Storage Temperature Range			T_{J},T_{STRG}	-40 to 200	°C		
Thermal Resistance, Junction to Lead	Length	Max.	Units	I _{RRM} (I	EXP)	Fig.	
Both Equal Length Leads to Heat Sink $$\rm R_{\rm e,L}$$	1/4" 3/4" 1/2"	7.5 10 13	°C / W °C / W °C / W	I _{RRM} (EXP) 0 10 30 50 Surge Current Characteristics			
Thermal Resistance, Junction to Case $R_{\mbox{\tiny BJC}}$.8 Тур	Deg. C / W				
Electrical Characteristics				Min.	Max.	Units	
Instantaneous Forward Voltage ($I_F = 100$ Amps, PW = 30 μ s, $T_C = 100$			$T_c = 25^{\circ}C)V_E$	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 = $80 \mu \text{s}$) V_{BR}				N/A	35	Volts	
Typical Breakdown Voltage Temperature CoefficientV _(br) T _C				N/A	0.096	% / °C	
Typical Forward Voltage Temperature Coefficient($I_F = 10 \text{ mA}$) $V_{F(tc)}$				N/A	2	mV / °C	