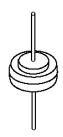
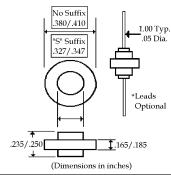
FASTORB - 50 Amp Avalanche AUTOMOTIVE RECTIFIERS

Mechanical Dimensions

-R5028







Options - Add Suffix to Part #: FR5028L = 2 Leads

For 1 Lead

FR5028C = Lead On Cathode FR5028A = Lead On Anode

Features

- **INEXPENSIVE**
- GLASS PASSIVATED DIE

AVALANCHE VOLTAGE 24 TO 32 VOLTS

					FR5028		
Maximum Ratings			Symbol	Value	Units		
Peak Repetitive Reverse Voltage			V _{RRM}	20	Vo	Volts	
Working Peak Reverse Voltage			V _{RWM}	20	Vo	Volts	
DC Blocking Voltage			V _{DC}	20	Vo	Volts	
Repetitive Peak Reverse Surge Current Time Constant = 10 ms, Duty Cycle 1%, T _c = 25°C (See Fig. 1)			IRSM	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 Operating & Storage Temperature Range			I _o	50	An	Amps	
			I _{FSM}	800	An	Amps	
			T _J , T _{STRG}	-65 to 175	0	C	
Thermal Resistance, Junction to Lead	Length	Max.	Units	I _{RRM} (EXP)	<u> </u>	Fig. 1	
Both Equal Length Leads to Heat Sink $\rm R_{\rm e,L}$	1/4" 3/4" 8 1/2"	7.5 10 13	°C / W °C / W °C / W	I _{RRM} (EXP)			
Thermal Resistance, Junction to Case $\rm R_{\rm eJC}$.8 Тур	°C / W	0 10 30 50 Surge Current Characteristics			
Electrical Characteristics				Min.	Max.	Units	
Instantaneous Forward Voltage ($I_F = 100 \text{ Amps}, T_C = 25^{\circ}\text{C}$) V_F				N/A	1.1	Volts	
Instantaneous Reverse Current ($V_R = 20 V_{DC}, T_C = 25^{\circ}C$) I_R				N/A	1.0	μAmps	
Breakdown Voltage ($I_R = 100 \text{ mAmps}$, $T_C = 25^{\circ}\text{C}$) V_{BR}				24	32	Volts	
Clamping Voltage ($I_R = 90 \text{ Amps}$, $T_C = 150^{\circ}\text{C}$, PW = $80 \mu\text{s}$) V_{BR}				N/A	38	Volts	
Typical Breakdown Voltage Temperature CoefficientV _(b) 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	