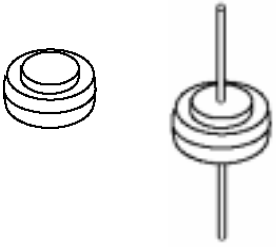
Data Sheet

FASTORB - 25 & 35 Amp Avalanche AUTOMOTIVE RECTIFIERS

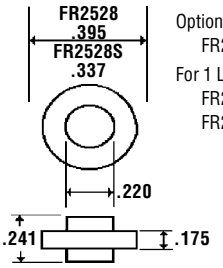
FR2528 & 3528

Description

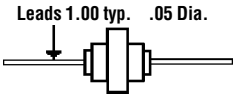
Note: Ring Markings on Cathode



Mechanical Dimensions



Options - Add Suffix to Part #:
FR2528L = 2 Leads; FR3528L = 2 Leads
For 1 Lead Small Pkg:
FR2528SC = Lead On Cathode
FR2528SA = Lead On Anode



Features

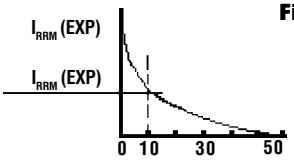
- **INEXPENSIVE**
- **GLASS PASSIVATED DIE**
- **AVALANCHE VOLTAGE 24 TO 32 VOLTS**

Electrical Characteristics @ 25°C. ***FR2528 & 3528*** *Replaces MR2535 & MR3525*

Maximum Ratings		Symbol	Value	Units
Peak Repetitive Reverse Voltage		V_{RRM}	20	Volts
Working Peak Reverse Voltage		V_{RWM}	20	Volts
DC Blocking Voltage		V_{DC}	20	Volts
Repetitive Peak Reverse Surge Current		I_{RSM}		
	FR2528		110	Amps
	FR3528		150	Amps
Average Forward Rectified Current		I_O		
	FR2528		25	Amps
	FR3528		35	Amps
Non-Repetitive Peak Forward Surge Current		I_{FSM}	250	Amps
Surge Supplied @ Rated Load Conditions, ½ Wave, Single Phase				
	FR2528		600	Amps
	FR3528		800	Amps

Thermal Resistance, Junction to Lead	Length	Max.	Units
Both Equal Length Leads to Heat Sink $R_{\theta JL}$	¼"	7.5	°C / W
	⅜"	10	°C / W
	½"	13	°C / W
Thermal Resistance, Junction to Case $R_{\theta JC}$		.8 Typ	°C / W

Fig. 1



Surge Current Characteristics

	Min.	Max.	Units
Instantaneous Forward Voltage (I_F = 100 Amps, T_C = 25°C)...V_F	N/A	1.10	Volts
Instantaneous Reverse Current (V_R = 20 V_{DC}, T_C = 25°C)...I_R	N/A	1.0	µAmps
Breakdown Voltage (I_R = 100 mAmps, T_C = 25°C)...V_{BR}	24	32	Volts
Clamping Voltage (I_R = 90 Amps, T_C = 150°C, PW = 80 µS)...V_{BR}	N/A	40	Volts
Breakdown Voltage Temperature Coefficient...$V_{(br)}$ T_C	N/A	0.096	% / °C
Forward Voltage Temperature Coefficient...(I_F = 10 mA) $V_{F(tc)}$	N/A	2	mV / °C