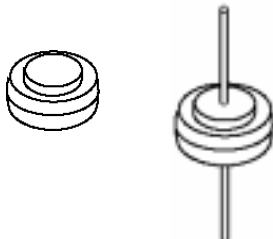


FASTORB - 25 & 35 Amp Avalanche AUTOMOTIVE RECTIFIERS

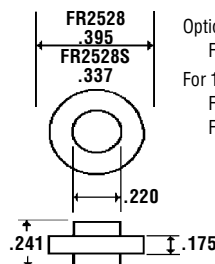
FR2528 & 3528

Description

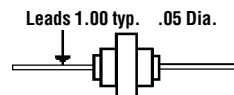
Note: Ring Markings on Cathode



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

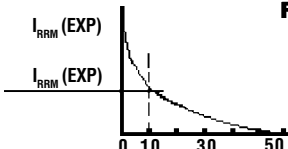


Features

■ 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}	110	Amps		
			150	Amps		
Average Forward Rectified Current		I_O	25	Amps		
			35	Amps		
Non-Repetitive Peak Forward Surge Current		I_{FSM}	250	Amps		
Surge Supplied @ Rated Load Conditions, ½ Wave, Single Phase			600	Amps		
			800	Amps		
Thermal Resistance, Junction to Lead		Length	Max.	Units	 Fig. 1	
Both Equal Length Leads to Heat Sink		¼"	7.5	°C / W		
$R_{\theta JL}$		⅜"	10	°C / W		
		½"	13	°C / W		
Thermal Resistance, Junction to Case			.8 Typ	°C / W		
$R_{\theta JC}$						
Instantaneous Forward Voltage ($I_F = 100$ Amps, $T_C = 25^\circ\text{C}$)... V_F				Min.	Max.	Units
Instantaneous Reverse Current ($V_R = 20$ V _{DC} , $T_C = 25^\circ\text{C}$)... I_R				N/A	1.10	Volts
Breakdown Voltage ($I_R = 100$ mAmps, $T_C = 25^\circ\text{C}$)... V_{BR}				N/A	1.0	μAmps
Clamping Voltage ($I_R = 90$ Amps, $T_C = 150^\circ\text{C}$, PW = 80 μS)... V_{BR}				24	32	Volts
Breakdown Voltage Temperature Coefficient... $V_{(br)} T_C$				N/A	40	Volts
Forward Voltage Temperature Coefficient...($I_F = 10$ mA) $V_{F(tr)}$				N/A	0.096	% / °C
					2	mV / °C