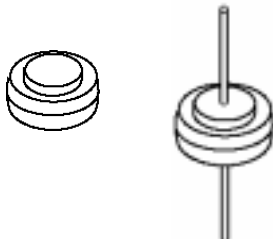


FASTORB - 25 & 35 Amp Avalanche AUTOMOTIVE RECTIFIERS

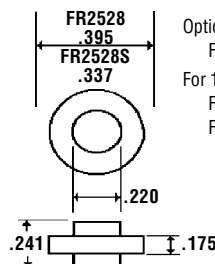
FR2528 & 3528

Description

Note: Ring Markings on Cathode



Mechanical Dimensions



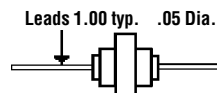
Options - Add Suffix to Part #:

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, 1/2 Wave, Single Phase						
					600	Amps
					800	Amps
Thermal Resistance, Junction to Lead	Length	Max.	Units	Surge Current Characteristics		
Both Equal Length Leads to Heat Sink $R_{\theta JL}$	1/4"	7.5	°C / W			
	3/8"	10	°C / W			
	1/2"	13	°C / W			
Thermal Resistance, Junction to Case $R_{\theta JC}$		.8 Typ	°C / W			
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) $V_{F(tc)}$				N/A	0.096	% / °C
					2	mV / °C

Fig. 1