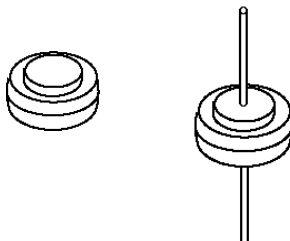
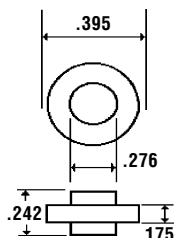


FR7028

Description



Mechanical Dimensions



Options - Add Suffix to Part #:

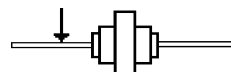
FR7028L = 2 Leads

For 1 Lead Small Pkg:

FR7028C = Lead On Cathode

FR7028A = Lead On Anode

Leads 1.00 typ. .05 Dia.



Features

■ **INEXPENSIVE**

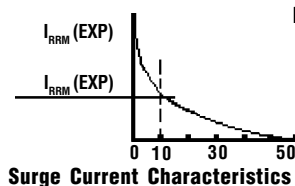
■ **GLASS PASSIVATED DIE**

■ **AVALANCHE VOLTAGE 24 TO 32 VOLTS**

FR7028

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}	200	Amps
Average Forward Rectified Current	I_O	70	Amps
Non-Repetitive Peak Forward Surge Current Surge Supplied @ Rated Load Conditions, 1/2 Wave, Single Phase	I_{FSM}	1000	Amps

	Length	Max.	Units
Thermal Resistance, Junction to Lead	1/4"	7.5	°C / W
Both Equal Length Leads to Heat Sink	3/8"	10	°C / W
$R_{\theta JL}$	1/2"	13	°C / W
Thermal Resistance, Junction to Case		.8 Typ	°C / W
$R_{\theta JC}$			



Electrical Characteristics

	Min.	Max.	Units
Instantaneous Forward Voltage ($I_F = 100$ Amps, $T_C = 25^\circ\text{C}$)... V_F	N/A	1.0	Volts
Reverse Current ($V_R = 20$ V _{DC} , $T_C = 25^\circ\text{C}$)... I_R	N/A	1.0	μAmps
Breakdown Voltage ($I_R = 100$ mAmps, $T_C = 25^\circ\text{C}$)... V_{BR}	24	32	Volts
Clamping Voltage ($I_R = 90$ Amps, $T_C = 150^\circ\text{C}$, $PW = 80$ μs)... V_{BR}	N/A	37	Volts
Typical Breakdown Voltage Temperature Coefficient... $V_{(br)} T_C$	N/A	0.096	% / °C
Typical Forward Voltage Temperature Coefficient...($I_F = 10$ mA) $V_{F(tc)}$	N/A	2	mV / °C