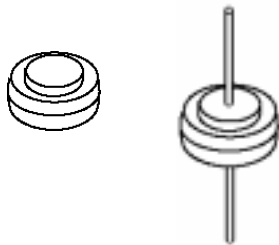


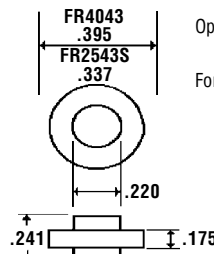
FASTORB - 25, 35 & 40 Amp Avalanche AUTOMOTIVE RECTIFIERS

Description

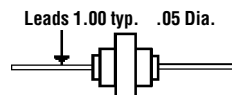
Note: Ring Markings on Cathode



Mechanical Dimensions



Options - Add Suffix to Part #:
FR2543L = 2 Leads; FR4043L = 2 Leads
For 1 Lead Small Pkg:
FR2543SC = Lead On Cathode
FR3543SA = Lead On Anode



Note: FR4043 is offered only in 10mm (.395" Dia.) package.

Features

- INEXPENSIVE
- GLASS PASSIVATED DIE
- AVALANCHE VOLTAGE 39 TO 47 VOLTS

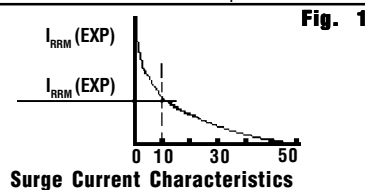
FR2543, 3543 & 4043

Electrical Characteristics @ 25°C.

FR2543, 3543 & 4043

Maximum Ratings	Symbol	Value	Units
Peak Repetitive Reverse Voltage	V_{RRM}	33	Volts
Working Peak Reverse Voltage	V_{RWM}	33	Volts
DC Blocking Voltage	V_{DC}	33	Volts
Repetitive Peak Reverse Surge Current	I_{RSM}	0.11	Amps
		150	Amps
		200	Amps
Average Forward Rectified Current	I_O	25	Amps
		35	Amps
		50	Amps
Non-Repetitive Peak Forward Surge Current	I_{FSM}	250	Amps
		400	Amps
		500	Amps

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



	Min.	Max.	Units
Instantaneous Forward Voltage ($I_F = 100$ Amps, $T_C = 25^\circ\text{C}$)... V_F	N/A	1.10	Volts
Instantaneous Reverse Current ($V_R = 33$ 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}	39	47	Volts
Clamping Voltage ($I_R = 90$ Amps, $T_C = 150^\circ\text{C}$, 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