



BRxXF SERIES

2 to 10kV, 600 to 1500mA, 40nS
Axial Lead Medium Current Diodes



Features

- Faster Reverse Recovery Than Regular BR Series
- Higher Forward Surge (I_{FSM}) Rating
- Lower Leakage Current
- Molded Plastic Body, ANSI/UL94 V-0 Rated Material

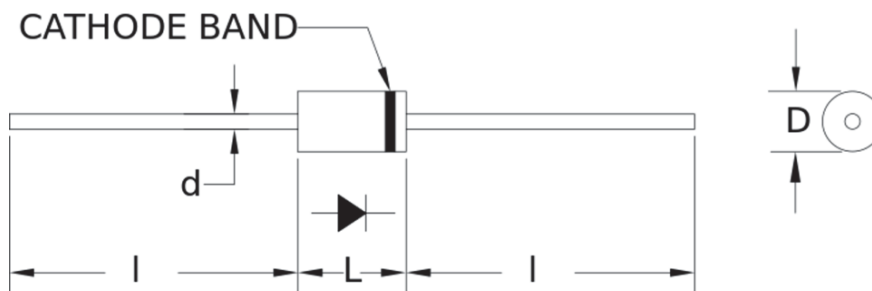
Specifications¹

Part Number	V_{RRM} V	I_{FAVM} mA	V_F V	I_R μA	I_{FSM} A	C_J pF	T_{RR} nS	L in.	D in.	d in.	l in.
BR2XF	2000	1500	2.6	2	80	20.0	40	0.354	0.197	0.05	0.94
BR3XF	3000	1400	3.1	2	80	20.0	40	0.354	0.197	0.05	0.94
BR4XF	4000	1000	7.6	2	70	13.0	40	0.354	0.197	0.05	0.94
BR5XF	5000	900	8.3	2	70	13.0	40	0.354	0.197	0.05	0.94
BR6XF	6000	800	9.3	2	60	10.2	40	0.354	0.197	0.05	0.94
BR8XF	8000	700	11.3	2	60	8.0	40	0.354	0.197	0.05	0.94
BR10XF	10000	600	13.9	2	50	6.5	40	0.354	0.197	0.05	0.94

Temperature °C	
Storage Temperature	-55 to 175
Operating Temperature	-55 to 150
Maximum Junction Temperature	150

¹25°C ambient temperature unless stated otherwise.

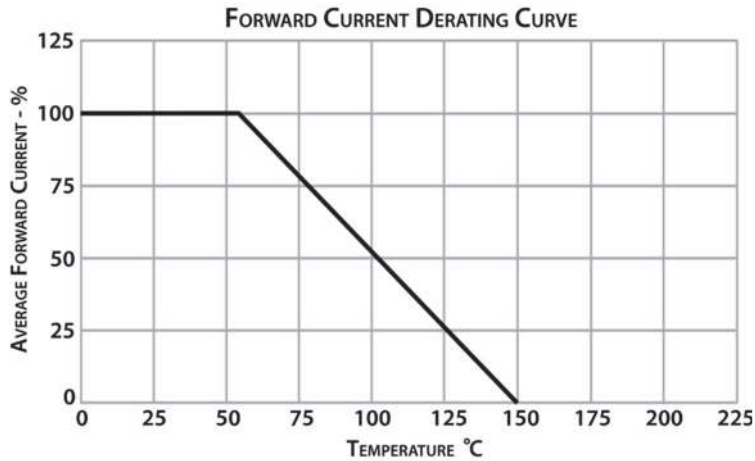
Drawings



Dimensions in inches, tolerances ± 0.020 except as noted



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Specification Definitions

	Specifications	Conditions
V_{RRM}	Maximum Repetitive Reverse Voltage	-
I_{FAVM}	Maximum Average Forward Current	At $T_A = 55^\circ\text{C}$ in Oil
V_F	Maximum Forward Voltage Drop	At I_{FAVM}
I_R	Maximum Leakage Current	At V_{RRM}
I_{FSM}	Maximum Surge Current	At 8.3 mS, Single Half Sine
C_J	Typical Junction Capacitance	At $V_R = 0\text{VDC}$, $f = 1\text{MHz}$
T_{RR}	Maximum Reverse Recovery Time	$I_F = 0.5 I_{FAVM}$; $I_R = -I_{FAVM}$; $I_{RR} = -0.25 I_{FAVM}$

Note: Specifications subject to change without notice. Photo is representation only.

