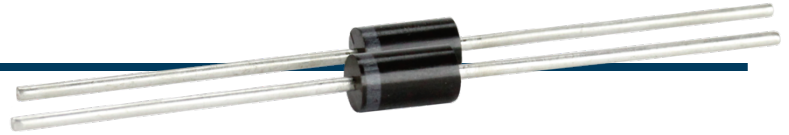




# BRxXF SERIES

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

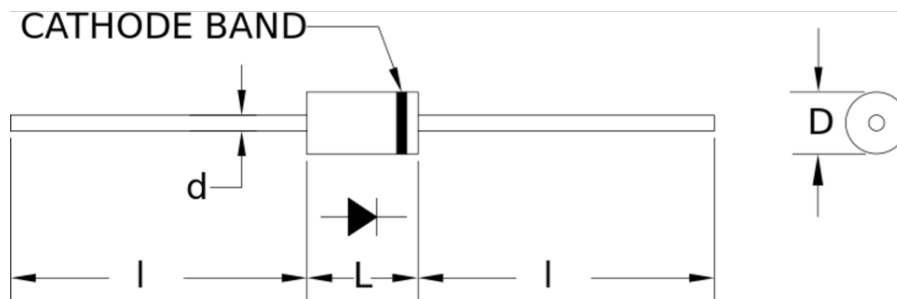
## Specifications<sup>1</sup>

Part Number	$V_{RRM}$ V	$I_{FAVM}$ mA	$V_F$ V	$I_R$ $\mu$ A	$I_{FSM}$ 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

<sup>1</sup>25°C ambient temperature unless stated otherwise.

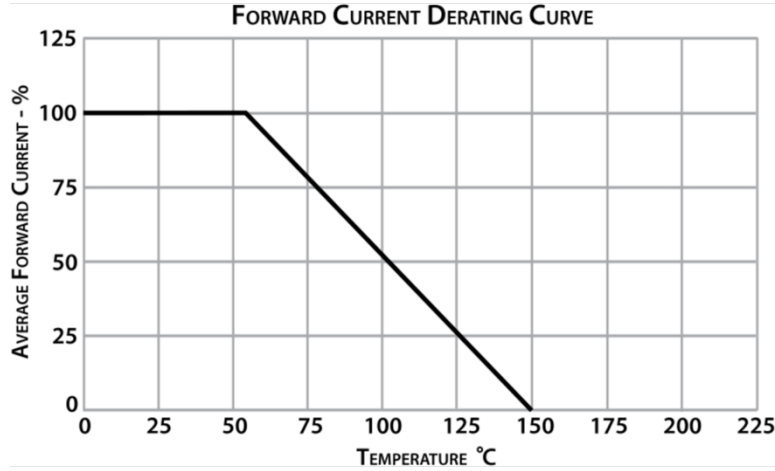
## Drawings



Dimensions in inches, tolerances  $\pm 0.020$  except as noted



# BRxXF SERIES



## Specification Definitions

	Specifications	Conditions
<b>V<sub>RRM</sub></b>	Maximum Repetitive Reverse Voltage	-
<b>I<sub>FAVM</sub></b>	Maximum Average Forward Current	At T <sub>A</sub> = 55°C in Oil
<b>V<sub>F</sub></b>	Maximum Forward Voltage Drop	At I <sub>FAVM</sub>
<b>I<sub>R</sub></b>	Maximum Leakage Current	At V <sub>RRM</sub>
<b>I<sub>FSM</sub></b>	Maximum Surge Current	At 8.3 mS, Single Half Sine
<b>C<sub>J</sub></b>	Typical Junction Capacitance	At V <sub>R</sub> = 0VDC, f = 1MHz
<b>T<sub>RR</sub></b>	Maximum Reverse Recovery Time	I <sub>F</sub> = 0.5 I <sub>FAVM</sub> ; I <sub>R</sub> = -I <sub>FAVM</sub> ; I <sub>RR</sub> = -0.25 I <sub>FAVM</sub>

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

