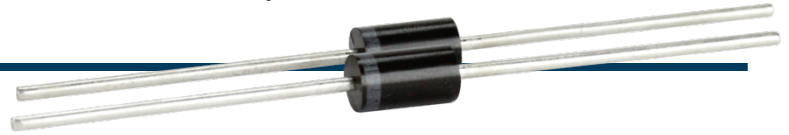




BR SERIES

2 to 10kV, 250 to 1000mA, 75nS to Standard Recovery
Axial Lead Power Diodes



Features

- Medium Current
- Molded Plastic Body, ANSI/UL94 V-0 Rated Material

Specifications¹

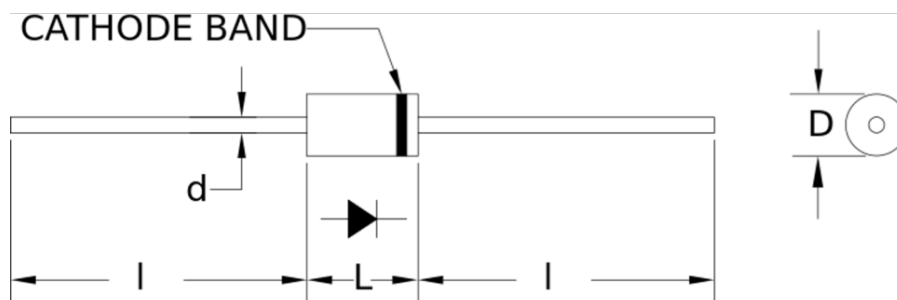
| Part Number | V _{RRM} V | I _{FAVM} mA | V _F V | I _R μA | I _{FSM} A | C _J pF | T _{RR} ² nS | L in. | D in. | d in. | l in. |
|-------------|-----------------------|-------------------------|---------------------|----------------------|-----------------------|----------------------|------------------------------------|----------|----------|----------|----------|
| BR2 | 2000 | 1000 | 2.4 | 5 | 40 | - | - | 0.354 | 0.197 | 0.05 | 0.94 |
| BR2F | 2000 | 900 | 3.8 | 5 | 20 | 35 | 100 | 0.354 | 0.197 | 0.05 | 0.94 |
| BR3F | 3000 | 900 | 3.8 | 5 | 40 | 35 | 100 | 0.354 | 0.197 | 0.05 | 0.94 |
| BR4 | 4000 | 850 | 4.4 | 5 | 20 | - | - | 0.354 | 0.197 | 0.05 | 0.94 |
| BR4F | 4000 | 600 | 7.0 | 5 | 20 | 36 | 100 | 0.354 | 0.197 | 0.05 | 0.94 |
| BR5 | 5000 | 750 | 6.0 | 5 | 20 | - | - | 0.354 | 0.197 | 0.05 | 0.94 |
| BR5F | 5000 | 600 | 8.8 | 5 | 20 | 20 | 100 | 0.354 | 0.197 | 0.05 | 0.94 |
| BR6F | 6000 | 500 | 10.5 | 5 | 20 | 19 | 100 | 0.354 | 0.197 | 0.05 | 0.94 |
| BR8F | 8000 | 400 | 12.9 | 5 | 20 | 14 | 100 | 0.354 | 0.197 | 0.05 | 0.94 |
| BR10F | 10000 | 250 | 14.0 | 5 | 40 | 10 | 100 | 0.354 | 0.197 | 0.05 | 0.94 |
| BRU10SF | 10000 | 250 | 17.0 | 5 | 20 | 7 | 75 | 0.354 | 0.197 | 0.05 | 0.94 |

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

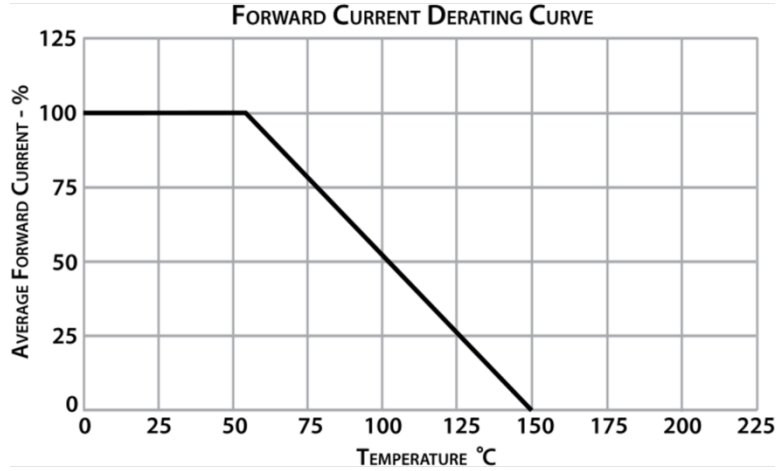
¹25°C ambient temperature unless stated otherwise.

²A "-" indicates that the component is a standard recovery device and no T_{RR} data is taken.

Drawings



Dimensions in inches, tolerances ±0.020 except as noted



Specification Definitions

| | Specifications | Conditions |
|-------------------------|------------------------------------|--|
| V_{RRM} | Maximum Repetitive Reverse Voltage | - |
| I_{FAVM} | Maximum Average Forward Current | At T _A = 55°C |
| 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 = 0VDC, f = 1MHz |
| 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.

