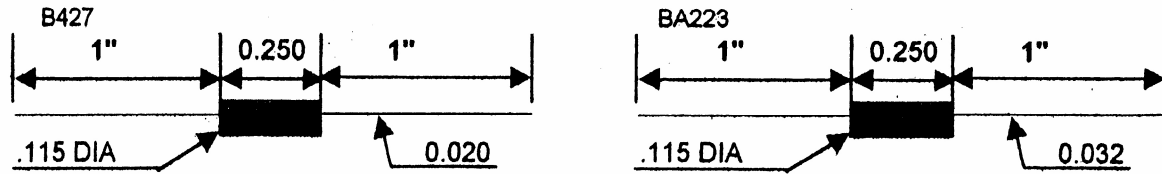


Sub-Miniature High Voltage Rectifiers

Compact tubular construction and flexible leads facilitate circuit mounting, provide excellent thermal conductivity and eliminate sharp edges to reduce corona common to large, rectangular packages. Diodes are manufactured using double junctions that are bonded and selected for uniform electrical characteristics. Series B427 and the BA223, units all meet moisture resistance requirements of MIL Standard 202A, Method 106. Series B427 and BA223 are available in voltage ratings of 1000 to 7000 volts PIV. The B427 is available in a current range of 50ma to 200ma and the BA223 in a current range from 150ma to 1000ma. Both are available in standard and fast recovery series. All series are available with special ratings on request. Other sizes and ratings are available.



Specifications B427, BA223

Standard series

| PIV Volts | PART NO. | Io ma @ 55° C | Vf Io @ 25° C | PART NO. | Io ma @ 55° C | Vf Io @ 25° C |
|--------------|-------------|------------------|------------------|-------------|------------------|------------------|
| 1000 | B427-10 | 200 | 5 | BA223-10 | 1000 | 5 |
| 1500 | B427-15 | 200 | 5 | BA223-15 | 1000 | 5 |
| 2000 | B427-20 | 200 | 5 | BA223-20 | 700 | 5 |
| 2500 | B427-25 | 200 | 5 | BA223-25 | 700 | 5 |
| 3000 | B427-30 | 200 | 5 | BA223-30 | 500 | 5 |
| 3500 | B427-35 | 100 | 7 | BA223-35 | 500 | 7 |
| 4000 | B427-40 | 100 | 7 | BA223-40 | 400 | 7 |
| 4500 | B427-45 | 100 | 7 | BA223-45 | 400 | 7 |
| 5000 | B427-50 | 100 | 7 | BA223-50 | 300 | 7 |
| 5500 | B427-55 | 50 | 10 | BA223-55 | 300 | 10 |
| 6000 | B427-60 | 50 | 10 | BA223-60 | 200 | 10 |
| 6500 | B427-65 | 50 | 10 | BA223-65 | 200 | 10 |
| 7000 | B427-70 | 50 | 10 | BA223-70 | 150 | 10 |

Fast Recovery series

| PIV | PART | Io ma @ | Vf | PART | Io ma @ | Vf |
|------|----------|---------|----|------------|---------|----|
| 1000 | BR427-10 | 100 | 7 | BAR223-10 | 500 | 7 |
| 1500 | BR427-15 | 100 | 7 | BAR223-15 | 500 | 7 |
| 2000 | BR427-20 | 100 | 7 | BAR-223-20 | 350 | 7 |
| 2500 | BR427-25 | 100 | 7 | BAR-223-25 | 350 | 7 |
| 3000 | BR427-30 | 100 | 7 | BAR223-30 | 250 | 7 |
| 3500 | BR427-35 | 50 | 10 | BAR223-35 | 250 | 10 |
| 4000 | BR427-40 | 50 | 10 | BAR223-40 | 200 | 10 |
| 4500 | BR427-45 | 50 | 10 | BAR223-45 | 200 | 10 |
| 5000 | BR427-50 | 50 | 10 | BAR223-50 | 150 | 10 |
| 5500 | BR427-55 | 25 | 15 | BAR223-55 | 150 | 15 |
| 6000 | BR427-60 | 25 | 15 | BAR223-60 | 100 | 15 |
| 6500 | BR427-65 | 25 | 15 | BAR223-65 | 100 | 15 |
| 7000 | BR427-70 | 25 | 15 | BAR223-70 | 75 | 15 |

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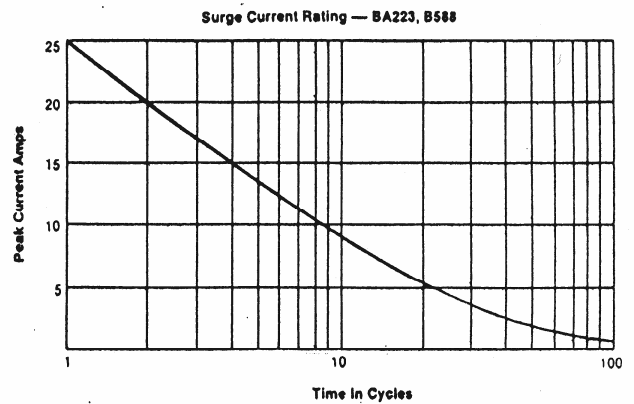
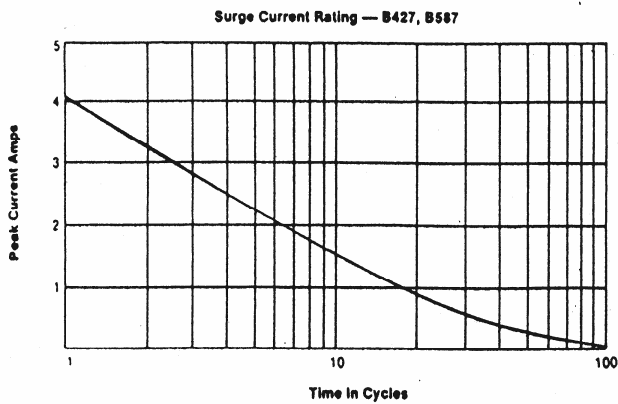
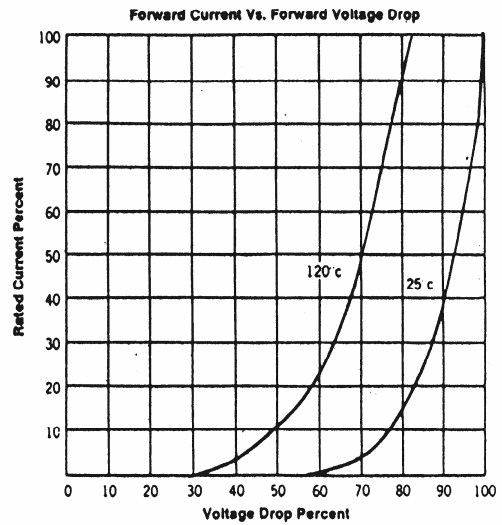
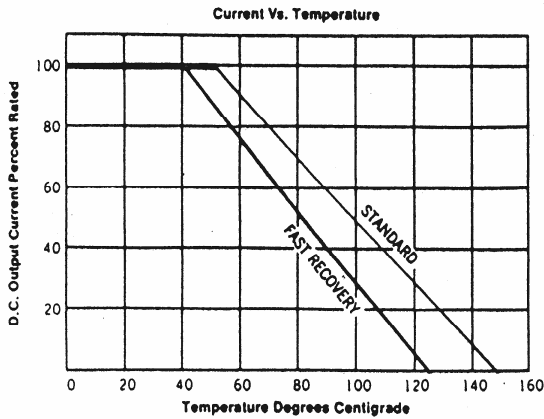
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Electrical Ratings

| | B427 | BR427 | BA223 | BAR223 |
|---|--------|--------|---------|---------|
| Maximum Allowable One Cycle Surge Current: (60 Hz single Phase non-recurrent, at rated PIV and no load) | 4 amps | 4 amps | 25 amps | 25 amps |
| Maximum Reverse Current 25°C @ PIV | 1 ua | 2 ua | 5 ua | 10 ua |
| 100°C | 40 ua | 100 ua | 200 ua | 500 ua |
| Recovery Time I _F 2ma and I _R 4 ma recovery to 1 ma | _____ | 250 ns | _____ | _____ |
| Recovery Time I _F 20 ma and I _R 40 ma recovery to 10 ma | _____ | _____ | _____ | 200 ns |



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