



# BZX84C - SERIES

## SURFACE MOUNT ZENER DIODES/SOT - 23

| Ta = 25°C |                 | Marking Code | Zener Voltage @ Izt |           | Max. Dyn. Imped. @ Izt | Test Current | Max. Dyn. Imped. @ Izk | Test Current | Temp Coeff. @ Izt | Rev. Current @ Vr | Test Voltage |
|-----------|-----------------|--------------|---------------------|-----------|------------------------|--------------|------------------------|--------------|-------------------|-------------------|--------------|
| Part No.  | Cross-Reference |              | Vz (V)              | Zzt (Ω)   | Izt (mA)               | Zzk (Ω)      | Izk (mA)               | avz (%/k)    | Ir (μA)           | Vr (V)            |              |
|           |                 |              | BZX84C2V7           | MMBZ5223B | Z12                    | 2.5 - 2.9    | 100                    | 600          |                   | -0.065            | 20.00        |
| BZX84C3   | MMBZ5225B       | Z13          | 2.8 - 3.2           | 95        | 600                    |              | -0.060                 | 10.00        | 1.0               |                   |              |
| BZX84C3V3 | MMBZ5226B       | Z14          | 3.1 - 3.5           | 95        | 600                    |              | -0.055                 | 5.00         | 1.0               |                   |              |
| BZX84C3V6 | MMBZ5227B       | Z15          | 3.4 - 3.8           | 90        | 600                    |              | -0.055                 | 5.00         | 1.0               |                   |              |
| BZX84C3V9 | MMBZ5228B       | Z16          | 3.7 - 4.1           | 90        | 600                    |              | -0.050                 | 3.00         | 1.0               |                   |              |
| BZX84C4V3 | MMBZ5229B       | Z17          | 4.0 - 4.6           | 90        | 600                    |              | -0.035                 | 3.00         | 1.0               |                   |              |
| BZX84C4V7 | MMBZ5230B       | Z1           | 4.4 - 5.0           | 80        | 500                    |              | -0.015                 | 3.00         | 2.0               |                   |              |
| BZX84C5V1 | MMBZ5231B       | Z2           | 4.8 - 5.4           | 60        | 480                    |              | +0.005                 | 2.00         | 2.0               |                   |              |
| BZX84C5V6 | MMBZ5232B       | Z3           | 5.2 - 6.0           | 40        | 400                    |              | +0.020                 | 1.00         | 2.0               |                   |              |
| BZX84C6V2 | MMBZ5234B       | Z4           | 5.8 - 6.6           | 10        | 150                    |              | +0.030                 | 3.00         | 4.0               |                   |              |
| BZX84C6V8 | MMBZ5235B       | Z5           | 6.4 - 7.2           | 15        | 80                     |              | +0.045                 | 2.00         | 4.0               |                   |              |
| BZX84C7V5 | MMBZ5236B       | Z6           | 7.0 - 7.9           | 15        | 80                     | 5.0          | +0.050                 | 1.00         | 5.0               |                   |              |
| BZX84C8V2 | MMBZ5237B       | Z7           | 7.7 - 8.7           | 15        | 80                     |              | +0.055                 | 0.70         | 5.0               |                   |              |
| BZX84C9V1 | MMBZ5239B       | Z8           | 8.5 - 9.6           | 15        | 100                    |              | +0.065                 | 0.50         | 6.0               |                   |              |
| BZX84C10  | MMBZ5240B       | Z9           | 9.4 - 10.6          | 20        | 150                    |              | +0.065                 | 0.20         | 7.0               |                   |              |
| BZX84C11  | MMBZ5241B       | Y1           | 10.4 - 11.6         | 20        | 150                    |              | +0.070                 | 0.10         | 8.0               |                   |              |
| BZX84C12  | MMBZ5242B       | Y2           | 11.4 - 12.7         | 25        | 150                    |              | +0.075                 | 0.10         | 8.0               |                   |              |
| BZX84C13  | MMBZ5243B       | Y3           | 12.4 - 14.1         | 30        | 170                    |              | +0.080                 | 0.10         | 8.0               |                   |              |
| BZX84C15  | MMBZ5245B       | Y4           | 13.8 - 15.6         | 30        | 200                    |              | +0.090                 | 0.05         | 0.7               |                   |              |
| BZX84C16  | MMBZ5246B       | Y5           | 15.3 - 17.1         | 40        | 200                    |              | +0.090                 | 0.05         | 0.7               |                   |              |
| BZX84C18  | MMBZ5248B       | Y6           | 16.8 - 19.1         | 45        | 225                    |              | +0.090                 | 0.05         | 0.7               |                   |              |
| BZX84C20  | MMBZ5250B       | Y7           | 18.8 - 21.2         | 55        | 225                    |              | +0.090                 | 0.05         | 0.7               |                   |              |
| BZX84C22  | MMBZ5251B       | Y8           | 20.8 - 23.3         | 55        | 250                    |              | +0.090                 | 0.05         | 0.7               |                   |              |
| BZX84C24  | MMBZ5252B       | Y9           | 22.8 - 25.6         | 70        | 250                    |              | +0.090                 | 0.05         | 0.7               |                   |              |
| BZX84C27  | MMBZ5254B       | Y10          | 25.1 - 28.9         | 80        | 300                    |              | +0.090                 |              |                   |                   |              |
| BZX84C30  | MMBZ5256B       | Y11          | 28 - 32             | 80        | 300                    |              | +0.090                 |              |                   |                   |              |
| BZX84C33  | MMBZ5257B       | Y12          | 31 - 35             | 80        | 325                    |              | +0.090                 |              |                   |                   |              |
| BZX84C36  | MMBZ5258B       | Y13          | 34 - 38             | 90        | 350                    |              | +0.090                 | 0.05         | 0.7               |                   |              |
| BZX84C39  | MMBZ5259B       | Y14          | 37 - 41             | 130       | 350                    | 2.0          | +0.110                 |              |                   |                   |              |
| BZX84C43  | MMBZ5260B       | Y15          | 40 - 46             | 150       | 375                    |              | +0.110                 |              |                   |                   |              |
| BZX84C47  | MMBZ5261B       | Y16          | 44 - 50             | 170       | 375                    |              | +0.110                 |              |                   |                   |              |
| BZX84C51  | MMBZ5262B       | Y17          | 48 - 54             | 180       | 400                    |              | +0.110                 |              |                   |                   |              |

Notes: 1. Operating and storage Temperature Range:

- 55°C to + 150°C

2. Package outline/SOT - 23 pin configuration - topview as figure.

