



Micro Commercial Components



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BZX784C2V4
THRU
BZX784C39

Silicon
150 mWatt
Zener Diodes

Features

- Planar Die construction
150mW Power Dissipation
Zener Voltages from 2.4V - 39V
Ideally Suited for Automated Assembly Processes
Halogen free available upon request by adding suffix "-HF"

Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1
Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
Weight: 0.0005 grams (approx.)

Maximum Ratings @ 25°C Unless Otherwise Specified

Table with 4 columns: Parameter, Symbol, Value, Units. Rows include Maximum Forward Voltage, Power Dissipation, Operation And Storage Temperature, and Thermal Resistance.

SOD-723

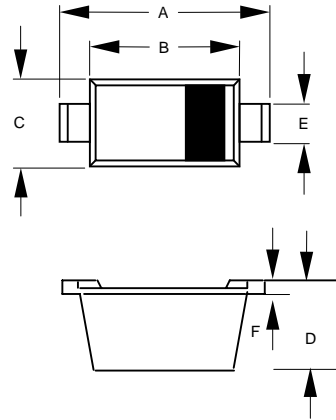


Table with 6 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Lists dimensions A through F.

**Electrical Characteristics (Ta= 25°C unless otherwise specified )**

| Type Number | Type Code | Zener Voltage Range (Note 2)    |        |        |                 | Maximum Zener Impedance (Note 3) |                                  |      | Maximum Reverse Current |                | Typical temperature coefficient @ I <sub>ZT</sub> mV/°C |      |
|-------------|-----------|---------------------------------|--------|--------|-----------------|----------------------------------|----------------------------------|------|-------------------------|----------------|---|------|
|             |           | V <sub>Z</sub> @I <sub>ZT</sub> |        |        | I <sub>ZT</sub> | Z <sub>ZT</sub> @I <sub>ZT</sub> | Z <sub>ZK</sub> @I <sub>ZK</sub> |      | I <sub>R</sub>          | V <sub>R</sub> | Min   | Max  |
|             |           | Nom(V)                          | Min(V) | Max(V) | (mA)            | (Ω)                              | (mA)                             | (μA) | (V)                     |                |   |      |
| BZX784C2V4  | Z1        | 2.4                             | 2.20   | 2.60   | 5               | 100                              | 600                              | 1.0  | 50                      | 1.0            | -3.5  | 0    |
| BZX784C2V7  | Z2        | 2.7                             | 2.5    | 2.9    | 5               | 100                              | 600                              | 1.0  | 20                      | 1.0            | -3.5  | 0    |
| BZX784C3V0  | Z3        | 3.0                             | 2.8    | 3.2    | 5               | 95                               | 600                              | 1.0  | 10                      | 1.0            | -3.5  | 0    |
| BZX784C3V3  | Z4        | 3.3                             | 3.1    | 3.5    | 5               | 95                               | 600                              | 1.0  | 5                       | 1.0            | -3.5  | 0    |
| BZX784C3V6  | Z5        | 3.6                             | 3.4    | 3.8    | 5               | 90                               | 600                              | 1.0  | 5                       | 1.0            | -3.5  | 0    |
| BZX784C3V9  | Z6        | 3.9                             | 3.7    | 4.1    | 5               | 90                               | 600                              | 1.0  | 3                       | 1.0            | -3.5  | 0    |
| BZX784C4V3  | Z7        | 4.3                             | 4.0    | 4.6    | 5               | 90                               | 600                              | 1.0  | 3                       | 1.0            | -3.5  | 0    |
| BZX784C4V7  | X1        | 4.7                             | 4.4    | 5.0    | 5               | 80                               | 500                              | 1.0  | 3                       | 2.0            | -3.5  | 0.2  |
| BZX784C5V1  | X2        | 5.1                             | 4.8    | 5.4    | 5               | 60                               | 480                              | 1.0  | 2                       | 2.0            | -2.7  | 1.2  |
| BZX784C5V6  | X3        | 5.6                             | 5.2    | 6.0    | 5               | 40                               | 400                              | 1.0  | 1                       | 2.0            | -2.0  | 2.5  |
| BZX784C6V2  | X4        | 6.2                             | 5.8    | 6.6    | 5               | 10                               | 150                              | 1.0  | 3                       | 4.0            | 0.4   | 3.7  |
| BZX784C6V8  | X5        | 6.8                             | 6.4    | 7.2    | 5               | 15                               | 80                               | 1.0  | 2                       | 4.0            | 1.2   | 4.5  |
| BZX784C7V5  | X6        | 7.5                             | 7.0    | 7.9    | 5               | 15                               | 80                               | 1.0  | 1                       | 5.0            | 2.5   | 5.3  |
| BZX784C8V2  | X7        | 8.2                             | 7.7    | 8.7    | 5               | 15                               | 80                               | 1.0  | 0.7                     | 5.0            | 3.2   | 6.2  |
| BZX784C9V1  | X8        | 9.1                             | 8.5    | 9.6    | 5               | 15                               | 100                              | 1.0  | 0.5                     | 6.0            | 3.8   | 7.0  |
| BZX784C10   | X9        | 10                              | 9.4    | 10.6   | 5               | 20                               | 150                              | 1.0  | 0.2                     | 7.0            | 4.5   | 8.0  |
| BZX784C11   | W1        | 11                              | 10.4   | 11.6   | 5               | 20                               | 150                              | 1.0  | 0.1                     | 8.0            | 5.4   | 9.0  |
| BZX784C12   | W2        | 12                              | 11.4   | 12.7   | 5               | 25                               | 150                              | 1.0  | 0.1                     | 8.0            | 6.0   | 10.0 |
| BZX784C13   | W3        | 13                              | 12.4   | 14.1   | 5               | 30                               | 170                              | 1.0  | 0.1                     | 8.0            | 7.0   | 11.0 |
| BZX784C15   | W4        | 15                              | 13.8   | 15.6   | 5               | 30                               | 200                              | 1.0  | 0.1                     | 10.5           | 9.2   | 13.0 |
| BZX784C16   | W5        | 16                              | 15.3   | 17.1   | 5               | 40                               | 200                              | 1.0  | 0.1                     | 11.2           | 10.4  | 14.0 |
| BZX784C18   | W6        | 18                              | 16.8   | 19.1   | 5               | 45                               | 225                              | 1.0  | 0.1                     | 12.6           | 12.4  | 16.0 |
| BZX784C20   | W7        | 20                              | 18.8   | 21.2   | 5               | 55                               | 225                              | 1.0  | 0.1                     | 14.0           | 14.4  | 18.0 |
| BZX784C22   | W8        | 22                              | 20.8   | 23.3   | 5               | 55                               | 250                              | 1.0  | 0.1                     | 15.4           | 16.4  | 20.0 |
| BZX784C24   | W9        | 24                              | 22.8   | 25.6   | 5               | 70                               | 250                              | 1.0  | 0.1                     | 16.8           | 18.4  | 22.0 |
| BZX784C27   | Y1        | 27                              | 25.1   | 28.9   | 2               | 80                               | 300                              | 0.5  | 0.1                     | 18.9           | 21.4  | 25.3 |
| BZX784C30   | Y2        | 30                              | 28.0   | 32.0   | 2               | 80                               | 300                              | 0.5  | 0.1                     | 21.0           | 24.4  | 29.4 |
| BZX784C33   | Y3        | 33                              | 31.0   | 35.0   | 2               | 80                               | 325                              | 0.5  | 0.1                     | 23.1           | 27.4  | 33.4 |
| BZX784C36   | Y4        | 36                              | 34.0   | 38.0   | 2               | 90                               | 350                              | 0.5  | 0.1                     | 25.2           | 30.4  | 37.4 |
| BZX784C39   | Y5        | 39                              | 37.0   | 41.0   | 2               | 130                              | 350                              | 0.5  | 0.1                     | 27.3           | 33.4  | 41.2 |

- Notes:**
- Valid provided that device terminals are kept at ambient temperature.
  - Tested with pulses, period=5ms,pulse width =300μs.
  - f = 1KHz.



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### Ordering Information :

| Device         | Packing               |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 8Kpcs/Reel |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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