

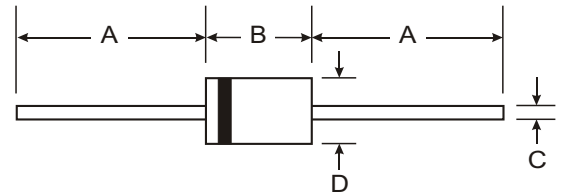
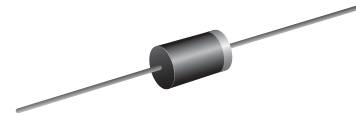
**VOLTAGE RANGE: 2.4 - 200V**  
**POWER: 1.3Watts**

### Features

- Complete Voltage Range 2.4 to 200 Volts
- High peak reverse power dissipation
- High reliability
- Low leakage current

### Mechanical Data

- Case : DO-41 Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.339 gram



| DO-41                |       |       |
|----------------------|-------|-------|
| Dim                  | Min   | Max   |
| A                    | 25.40 | —     |
| B                    | 4.06  | 5.21  |
| C                    | 0.71  | 0.864 |
| D                    | 2.00  | 2.72  |
| All Dimensions in mm |       |       |

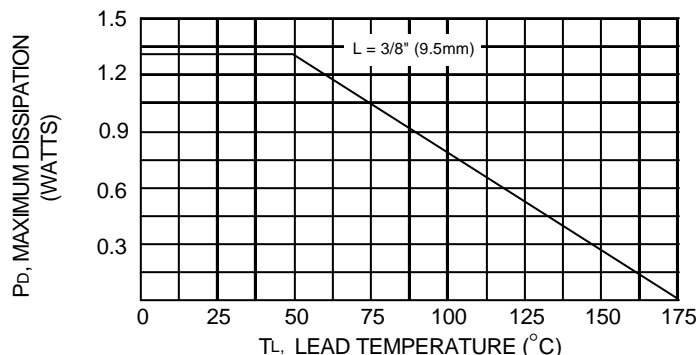
### Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

| Rating   | Symbol          | Value         | Unit             |
|--|-----------------|---------------|------------------|
| DC Power Dissipation at $T_L = 50^\circ\text{C}$ (Note1)   | $P_D$           | 1.3           | Watts            |
| Maximum Forward Voltage at $I_F = 200\text{ mA}$           | $V_F$           | 1.0           | Volts            |
| Maximum Thermal Resistance Junction to Ambient Air (Note2) | $R_{\theta JA}$ | 130           | K / W            |
| Junction Temperature Range                                 | $T_J$           | - 55 to + 175 | $^\circ\text{C}$ |
| Storage Temperature Range                                  | $T_s$           | - 55 to + 175 | $^\circ\text{C}$ |

#### Note:

- (1)  $T_L$  = Lead temperature at 3/8 " (9.5mm) from body
- (2) Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.

Fig.1 POWER TEMPERATURE DERATING CURVE





## ELECTRICAL CHARACTERISTICS Rating at = 25 °C ambient temperature unless otherwise specified

| TYPE       | Nominal Zener Voltage |      | Maximum Zener Impedance |           |      | Maximum Reverse Leakage Current |     | Maximum DC Zener Current |
|------------|-----------------------|------|-------------------------|-----------|------|---------------------------------|-----|--------------------------|
|            | Vz @ IZT              | IZT  | ZzT @ IZT               | ZzK @ IZK | IZK  | IR @ VR                         |     | IZM                      |
|            | (V)                   | (mA) | (Ω)                     | (Ω)       | (mA) | (μA)                            | (V) | (mA)                     |
| BZX85 C2V4 | 2.4                   | 80   | 20                      | 400       | 1.0  | 150                             | 1.0 | 410                      |
| BZX85 C2V7 | 2.7                   | 80   | 20                      | 400       | 1.0  | 150                             | 1.0 | 370                      |
| BZX85 C3V0 | 3.0                   | 80   | 20                      | 400       | 1.0  | 100                             | 1.0 | 340                      |
| BZX85 C3V3 | 3.3                   | 80   | 20                      | 400       | 1.0  | 40                              | 1.0 | 320                      |
| BZX85 C3V6 | 3.6                   | 70   | 20                      | 500       | 1.0  | 20                              | 1.0 | 290                      |
| BZX85 C3V9 | 3.9                   | 60   | 15                      | 500       | 1.0  | 10                              | 1.0 | 280                      |
| BZX85 C4V3 | 4.3                   | 50   | 13                      | 500       | 1.0  | 3.0                             | 1.0 | 250                      |
| BZX85 C4V7 | 4.7                   | 45   | 13                      | 500       | 1.0  | 3.0                             | 1.0 | 215                      |
| BZX85 C5V1 | 5.1                   | 45   | 10                      | 500       | 1.0  | 1.0                             | 1.5 | 200                      |
| BZX85 C5V6 | 5.6                   | 45   | 7.0                     | 400       | 1.0  | 1.0                             | 2.0 | 190                      |
| BZX85 C6V2 | 6.2                   | 35   | 4.0                     | 300       | 1.0  | 1.0                             | 3.0 | 170                      |
| BZX85 C6V8 | 6.8                   | 35   | 3.5                     | 300       | 1.0  | 50                              | 4.0 | 155                      |
| BZX85 C7V5 | 7.5                   | 35   | 3.0                     | 200       | 0.5  | 50                              | 4.5 | 140                      |
| BZX85 C8V2 | 8.2                   | 25   | 5.0                     | 200       | 0.5  | 50                              | 6.2 | 130                      |
| BZX85 C9V1 | 9.1                   | 25   | 5.0                     | 200       | 0.5  | 50                              | 6.8 | 120                      |
| BZX85 C10  | 10                    | 25   | 7.0                     | 200       | 0.5  | 50                              | 7.5 | 105                      |
| BZX85 C11  | 11                    | 20   | 8.0                     | 300       | 0.5  | 50                              | 8.2 | 97                       |
| BZX85 C12  | 12                    | 20   | 9.0                     | 350       | 0.5  | 0.5                             | 9.1 | 88                       |
| BZX85 C13  | 13                    | 20   | 10                      | 400       | 0.5  | 0.5                             | 10  | 79                       |
| BZX85 C15  | 15                    | 15   | 15                      | 500       | 0.5  | 0.5                             | 11  | 71                       |
| BZX85 C16  | 16                    | 15   | 15                      | 500       | 0.5  | 0.5                             | 12  | 66                       |
| BZX85 C18  | 18                    | 15   | 20                      | 500       | 0.5  | 0.5                             | 13  | 62                       |
| BZX85 C20  | 20                    | 10   | 24                      | 600       | 0.5  | 0.5                             | 15  | 56                       |
| BZX85 C22  | 22                    | 10   | 25                      | 600       | 0.5  | 0.5                             | 16  | 52                       |
| BZX85 C24  | 24                    | 10   | 25                      | 600       | 0.5  | 0.5                             | 18  | 47                       |
| BZX85 C27  | 27                    | 8.0  | 30                      | 750       | 0.25 | 0.5                             | 20  | 41                       |
| BZX85 C30  | 30                    | 8.0  | 30                      | 1000      | 0.25 | 0.5                             | 22  | 36                       |
| BZX85 C33  | 33                    | 8.0  | 35                      | 1000      | 0.25 | 0.5                             | 24  | 33                       |
| BZX85 C36  | 36                    | 8.0  | 40                      | 1000      | 0.25 | 0.5                             | 27  | 30                       |
| BZX85 C39  | 39                    | 6.0  | 50                      | 1000      | 0.25 | 0.5                             | 30  | 28                       |
| BZX85 C43  | 43                    | 6.0  | 50                      | 1000      | 0.25 | 0.5                             | 33  | 26                       |
| BZX85 C47  | 47                    | 4.0  | 90                      | 1500      | 0.25 | 0.5                             | 36  | 23                       |
| BZX85 C51  | 51                    | 4.0  | 115                     | 1500      | 0.25 | 0.5                             | 39  | 21                       |
| BZX85 C56  | 56                    | 4.0  | 120                     | 2000      | 0.25 | 0.5                             | 43  | 19                       |
| BZX85 C62  | 62                    | 4.0  | 125                     | 2000      | 0.25 | 0.5                             | 47  | 16                       |
| BZX85 C68  | 68                    | 4.0  | 130                     | 2000      | 0.25 | 0.5                             | 51  | 15                       |
| BZX85 C75  | 75                    | 4.0  | 135                     | 2000      | 0.25 | 0.5                             | 56  | 14                       |
| BZX85 C82  | 82                    | 2.7  | 200                     | 3000      | 0.25 | 0.5                             | 62  | 12                       |
| BZX85 C91  | 91                    | 2.7  | 250                     | 3000      | 0.25 | 0.5                             | 68  | 10                       |
| BZX85 C100 | 100                   | 2.7  | 350                     | 3000      | 0.25 | 0.5                             | 75  | 9.4                      |
| BZX85 C110 | 110                   | 2.7  | 450                     | 4000      | 0.25 | 0.5                             | 82  | 8.6                      |
| BZX85 C120 | 120                   | 2.0  | 550                     | 4500      | 0.25 | 0.5                             | 91  | 7.8                      |
| BZX85 C130 | 130                   | 2.0  | 700                     | 5000      | 0.25 | 0.5                             | 100 | 7.0                      |
| BZX85 C150 | 150                   | 2.0  | 1000                    | 6000      | 0.25 | 0.5                             | 110 | 6.4                      |
| BZX85 C160 | 160                   | 1.5  | 1100                    | 6500      | 0.25 | 0.5                             | 120 | 5.8                      |
| BZX85 C180 | 180                   | 1.5  | 1200                    | 7000      | 0.25 | 0.5                             | 130 | 5.2                      |
| BZX85 C200 | 200                   | 1.5  | 1500                    | 8000      | 0.25 | 0.5                             | 150 | 4.7                      |

**Note :**

- (1) The type number listed have a standard tolerance on the nominal zener voltage of  $\pm 5.0\%$ .

单击下面可查看定价，库存，交付和生命周期等信息

[>>SUNMATE\(森美特\)](#)