

# BZX84CxxxET1G Series, SZBZX84CxxxET1G Series

## Zener Voltage Regulators

### 250 mW SOT-23 Surface Mount

This series of Zener diodes is offered in the convenient, surface mount plastic SOT-23 package. These devices are designed to provide voltage regulation with minimum space requirement. They are well suited for applications such as cellular phones, hand held portables, and high density PC boards.

#### Specification Features

- 250 mW Rating on FR-4 or FR-5 Board
- Zener Breakdown Voltage Range – 2.4 V to 75 V
- Package Designed for Optimal Automated Board Assembly
- Small Package Size for High Density Applications
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- Peak Power – 225 W (8 X 20  $\mu$ s)
- SZ Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb-Free and are RoHS Compliant\*

#### Mechanical Characteristics

**CASE:** Void-free, transfer-molded, thermosetting plastic case

**FINISH:** Corrosion resistant finish, easily solderable

**MAXIMUM CASE TEMPERATURE FOR SOLDERING PURPOSES:**

260°C for 10 Seconds

**POLARITY:** Cathode indicated by polarity band

**FLAMMABILITY RATING:** UL 94 V-0

#### MAXIMUM RATINGS

| Rating                                                                                                                                             | Symbol                   | Max               | Unit                |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------|---------------------|
| Peak Power Dissipation @ 20 $\mu$ s (Note 1) @ $T_L \leq 25^\circ\text{C}$                                                                         | $P_{pk}$                 | 225               | W                   |
| Total Power Dissipation on FR-5 Board, (Note 2) @ $T_A = 25^\circ\text{C}$<br>Derated above 25°C<br>Thermal Resistance, Junction-to-Ambient        | $P_D$<br>$R_{\theta JA}$ | 250<br>2.0<br>500 | mW<br>mW/°C<br>°C/W |
| Total Power Dissipation on Alumina Substrate, (Note 3) @ $T_A = 25^\circ\text{C}$<br>Derated above 25°C<br>Thermal Resistance, Junction-to-Ambient | $P_D$<br>$R_{\theta JA}$ | 300<br>2.4<br>417 | mW<br>mW/°C<br>°C/W |
| Junction and Storage Temperature Range                                                                                                             | $T_J, T_{stg}$           | -65 to +150       | °C                  |

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

1. Nonrepetitive current pulse per Figure 9.

2. FR-5 = 1.0 X 0.75 X 0.62 in.

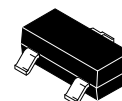
3. Alumina = 0.4 X 0.3 X 0.024 in, 99.5% alumina.

\*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

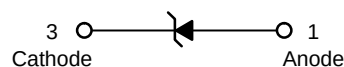


ON Semiconductor®

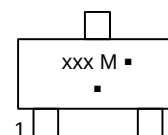
[www.onsemi.com](http://www.onsemi.com)



SOT-23  
CASE 318  
STYLE 8



#### MARKING DIAGRAM



xxx = Device Code  
M = Date Code\*  
▪ = Pb-Free Package

(Note: Microdot may be in either location)

\*Date Code orientation may vary depending upon manufacturing location.

#### ORDERING INFORMATION

| Device          | Package          | Shipping <sup>†</sup> |
|-----------------|------------------|-----------------------|
| BZX84CxxxET1G   | SOT-23 (Pb-Free) | 3,000 / Tape & Reel   |
| SZBZX84CxxxET1G | SOT-23 (Pb-Free) | 3,000 / Tape & Reel   |
| BZX84CxxxET3G   | SOT-23 (Pb-Free) | 10,000 / Tape & Reel  |
| SZBZX84CxxxET3G | SOT-23 (Pb-Free) | 10,000 / Tape & Reel  |

<sup>†</sup>For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, BRD8011/D.

#### DEVICE MARKING INFORMATION

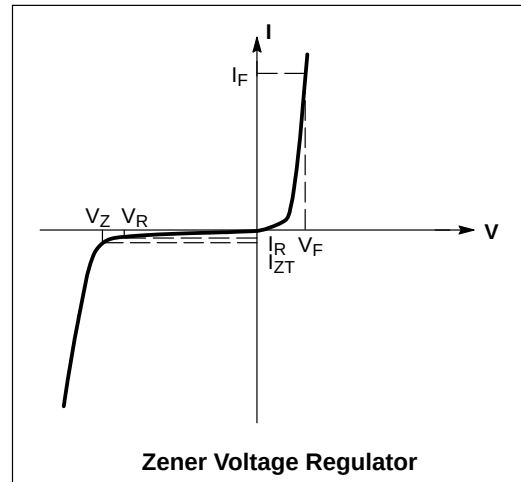
See specific marking information in the device marking column of the Electrical Characteristics table on page 3 of this data sheet.

## BZX84CxxxET1G Series, SZBZX84CxxxET1G Series

### ELECTRICAL CHARACTERISTICS

(Pinout: 1-Anode, 2-No Connection, 3-Cathode) ( $T_A = 25^\circ\text{C}$  unless otherwise noted,  $V_F = 0.90\text{ V Max. @ } I_F = 10\text{ mA}$ )

| Symbol       | Parameter                                           |
|--------------|-----------------------------------------------------|
| $V_Z$        | Reverse Zener Voltage @ $I_{ZT}$                    |
| $I_{ZT}$     | Reverse Current                                     |
| $Z_{ZT}$     | Maximum Zener Impedance @ $I_{ZT}$                  |
| $I_R$        | Reverse Leakage Current @ $V_R$                     |
| $V_R$        | Reverse Voltage                                     |
| $I_F$        | Forward Current                                     |
| $V_F$        | Forward Voltage @ $I_F$                             |
| $\Theta V_Z$ | Maximum Temperature Coefficient of $V_Z$            |
| C            | Max. Capacitance @ $V_R = 0$ and $f = 1\text{ MHz}$ |



# BZX84CxxxET1G Series, SZBZX84CxxxET1G Series

## ELECTRICAL CHARACTERISTICS

(Pinout: 1-Anode, 2-No Connection, 3-Cathode) ( $T_A = 25^\circ\text{C}$  unless otherwise noted,  $V_F = 0.90\text{ V Max. @ } I_F = 10\text{ mA}$ )

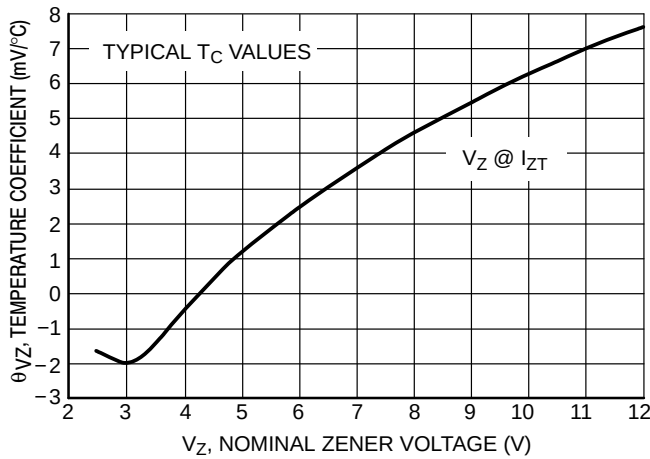
| Device*       | Device Marking | V <sub>Z1</sub> (V)<br>@ I <sub>ZT1</sub> = 5 mA<br>(Note 4) |     |      | Z <sub>VT1</sub> (Ω)<br>@ I <sub>ZT1</sub> = 5 mA   | V <sub>Z2</sub> (V)<br>@ I <sub>ZT2</sub> = 1 mA<br>(Note 4) |      | Z <sub>VT2</sub> (Ω)<br>@ I <sub>ZT2</sub> = 1 mA     | V <sub>Z3</sub> (V)<br>@ I <sub>ZT3</sub> =20 mA<br>(Note 4) |      | Z <sub>VT3</sub> (Ω)<br>@ I <sub>ZT3</sub> = 20 mA   | Max Reverse Leakage Current |                    | θ <sub>VZ</sub> (mV/k)<br>@ I <sub>ZT1</sub> =5 mA           |      | C (pF)<br>@ V <sub>R</sub> = 0<br>f = 1 MHz |
|---------------|----------------|--------------------------------------------------------------|-----|------|-----------------------------------------------------|--------------------------------------------------------------|------|-------------------------------------------------------|--------------------------------------------------------------|------|------------------------------------------------------|-----------------------------|--------------------|--------------------------------------------------------------|------|---------------------------------------------|
|               |                | Min                                                          | Nom | Max  |                                                     | Min                                                          | Max  |                                                       | Min                                                          | Max  |                                                      | I <sub>R</sub> μA           | V <sub>R</sub> (V) | Min                                                          | Max  |                                             |
| BZX84C2V4ET1G | BA1            | 2.2                                                          | 2.4 | 2.6  | 100                                                 | 1.7                                                          | 2.1  | 600                                                   | 2.6                                                          | 3.2  | 50                                                   | 50                          | 1.0                | -3.5                                                         | 0    | 450                                         |
| BZX84C2V7ET1G | BA2            | 2.5                                                          | 2.7 | 2.9  | 100                                                 | 1.9                                                          | 2.4  | 600                                                   | 3.0                                                          | 3.6  | 50                                                   | 20                          | 1.0                | -3.5                                                         | 0    | 450                                         |
| BZX84C3V0ET1G | BA3            | 2.8                                                          | 3.0 | 3.2  | 95                                                  | 2.1                                                          | 2.7  | 600                                                   | 3.3                                                          | 3.9  | 50                                                   | 10                          | 1.0                | -3.5                                                         | 0    | 450                                         |
| BZX84C3V3ET1G | BA4            | 3.1                                                          | 3.3 | 3.5  | 95                                                  | 2.3                                                          | 2.9  | 600                                                   | 3.6                                                          | 4.2  | 40                                                   | 5.0                         | 1.0                | -3.5                                                         | 0    | 450                                         |
| BZX84C3V6ET1G | BA5            | 3.4                                                          | 3.6 | 3.8  | 90                                                  | 2.7                                                          | 3.3  | 600                                                   | 3.9                                                          | 4.5  | 40                                                   | 5.0                         | 1.0                | -3.5                                                         | 0    | 450                                         |
| BZX84C3V9ET1G | BA6            | 3.7                                                          | 3.9 | 4.1  | 90                                                  | 2.9                                                          | 3.5  | 600                                                   | 4.1                                                          | 4.7  | 30                                                   | 3.0                         | 1.0                | -3.5                                                         | -2.5 | 450                                         |
| BZX84C4V3ET1G | BA7            | 4.0                                                          | 4.3 | 4.6  | 90                                                  | 3.3                                                          | 4.0  | 600                                                   | 4.4                                                          | 5.1  | 30                                                   | 3.0                         | 1.0                | -3.5                                                         | 0    | 450                                         |
| BZX84C4V7ET1G | BA9            | 4.4                                                          | 4.7 | 5.0  | 80                                                  | 3.7                                                          | 4.7  | 500                                                   | 4.5                                                          | 5.4  | 15                                                   | 3.0                         | 2.0                | -3.5                                                         | 0.2  | 260                                         |
| BZX84C5V1ET1G | BB1            | 4.8                                                          | 5.1 | 5.4  | 60                                                  | 4.2                                                          | 5.3  | 480                                                   | 5.0                                                          | 5.9  | 15                                                   | 2.0                         | 2.0                | -2.7                                                         | 1.2  | 225                                         |
| BZX84C5V6ET1G | BB2            | 5.2                                                          | 5.6 | 6.0  | 40                                                  | 4.8                                                          | 6.0  | 400                                                   | 5.2                                                          | 6.3  | 10                                                   | 1.0                         | 2.0                | -2                                                           | 2.5  | 200                                         |
| BZX84C6V2ET1G | BB3            | 5.8                                                          | 6.2 | 6.6  | 10                                                  | 5.6                                                          | 6.6  | 150                                                   | 5.8                                                          | 6.8  | 6                                                    | 3.0                         | 4.0                | 0.4                                                          | 3.7  | 185                                         |
| BZX84C6V8ET1G | BB4            | 6.4                                                          | 6.8 | 7.2  | 15                                                  | 6.3                                                          | 7.2  | 80                                                    | 6.4                                                          | 7.4  | 6                                                    | 2.0                         | 4.0                | 1.2                                                          | 4.5  | 155                                         |
| BZX84C7V5ET1G | BB5            | 7.0                                                          | 7.5 | 7.9  | 15                                                  | 6.9                                                          | 7.9  | 80                                                    | 7.0                                                          | 8.0  | 6                                                    | 1.0                         | 5.0                | 2.5                                                          | 5.3  | 140                                         |
| BZX84C8V2ET1G | BB6            | 7.7                                                          | 8.2 | 8.7  | 15                                                  | 7.6                                                          | 8.7  | 80                                                    | 7.7                                                          | 8.8  | 6                                                    | 0.7                         | 5.0                | 3.2                                                          | 6.2  | 135                                         |
| BZX84C9V1ET1G | BB7            | 8.5                                                          | 9.1 | 9.6  | 15                                                  | 8.4                                                          | 9.6  | 100                                                   | 8.5                                                          | 9.7  | 8                                                    | 0.5                         | 6.0                | 3.8                                                          | 7.0  | 130                                         |
| BZX84C10ET1G  | BB8            | 9.4                                                          | 10  | 10.6 | 20                                                  | 9.3                                                          | 10.6 | 150                                                   | 9.4                                                          | 10.7 | 10                                                   | 0.2                         | 7.0                | 4.5                                                          | 8.0  | 130                                         |
| BZX84C11ET1G  | BB9            | 10.4                                                         | 11  | 11.6 | 20                                                  | 10.2                                                         | 11.6 | 150                                                   | 10.4                                                         | 11.8 | 10                                                   | 0.1                         | 8.0                | 5.4                                                          | 9.0  | 130                                         |
| BZX84C12ET1G  | BC1            | 11.4                                                         | 12  | 12.7 | 25                                                  | 11.2                                                         | 12.7 | 150                                                   | 11.4                                                         | 12.9 | 10                                                   | 0.1                         | 8.0                | 6.0                                                          | 10   | 130                                         |
| BZX84C13ET1G  | BC2            | 12.4                                                         | 13  | 14.1 | 30                                                  | 12.3                                                         | 14   | 170                                                   | 12.5                                                         | 14.2 | 15                                                   | 0.1                         | 8.0                | 7.0                                                          | 11   | 120                                         |
| BZX84C15ET1G  | BC3            | 13.8                                                         | 15  | 15.6 | 30                                                  | 13.7                                                         | 15.5 | 200                                                   | 13.9                                                         | 15.7 | 20                                                   | 0.05                        | 10.5               | 9.2                                                          | 13   | 110                                         |
| BZX84C16ET1G  | BC4            | 15.3                                                         | 16  | 17.1 | 40                                                  | 15.2                                                         | 17   | 200                                                   | 15.4                                                         | 17.2 | 20                                                   | 0.05                        | 11.2               | 10.4                                                         | 14   | 105                                         |
| BZX84C18ET1G  | BC5            | 16.8                                                         | 18  | 19.1 | 45                                                  | 16.7                                                         | 19   | 225                                                   | 16.9                                                         | 19.2 | 20                                                   | 0.05                        | 12.6               | 12.4                                                         | 16   | 100                                         |
| BZX84C20ET1G  | BC6            | 18.8                                                         | 20  | 21.2 | 55                                                  | 18.7                                                         | 21.1 | 225                                                   | 18.9                                                         | 21.4 | 20                                                   | 0.05                        | 14                 | 14.4                                                         | 18   | 85                                          |
| BZX84C22ET1G  | BC7            | 20.8                                                         | 22  | 23.3 | 55                                                  | 20.7                                                         | 23.2 | 250                                                   | 20.9                                                         | 23.4 | 25                                                   | 0.05                        | 15.4               | 16.4                                                         | 20   | 85                                          |
| BZX84C24ET1G  | BC8            | 22.8                                                         | 24  | 25.6 | 70                                                  | 22.7                                                         | 25.5 | 250                                                   | 22.9                                                         | 25.7 | 25                                                   | 0.05                        | 16.8               | 18.4                                                         | 22   | 80                                          |
| Device*       | Device Marking | V <sub>Z1</sub> Below<br>@ I <sub>ZT1</sub> = 2 mA           |     |      | Z <sub>VT1</sub> Below<br>@ I <sub>ZT1</sub> = 2 mA | V <sub>Z2</sub> Below<br>@ I <sub>ZT2</sub> = 0.1 mA         |      | Z <sub>VT2</sub> Below<br>@ I <sub>ZT4</sub> = 0.5 mA | V <sub>Z3</sub> Below<br>@ I <sub>ZT3</sub> = 10 mA          |      | Z <sub>VT3</sub> Below<br>@ I <sub>ZT3</sub> = 10 mA | Max Reverse Leakage Current |                    | θ <sub>VZ</sub> (mV/k)<br>Below<br>@ I <sub>ZT1</sub> = 2 mA |      | C (pF)<br>@ V <sub>R</sub> = 0<br>f = 1 MHz |
|               |                | Min                                                          | Nom | Max  |                                                     | Min                                                          | Max  |                                                       | Min                                                          | Max  |                                                      | I <sub>R</sub> μA           | V <sub>R</sub> (V) | Min                                                          | Max  |                                             |
| BZX84C27ET1G  | BC9            | 25.1                                                         | 27  | 28.9 | 80                                                  | 25                                                           | 28.9 | 300                                                   | 25.2                                                         | 29.3 | 45                                                   | 0.05                        | 18.9               | 21.4                                                         | 25.3 | 70                                          |
| BZX84C30ET1G  | BD1            | 28                                                           | 30  | 32   | 80                                                  | 27.8                                                         | 32   | 300                                                   | 28.1                                                         | 32.4 | 50                                                   | 0.05                        | 21                 | 24.4                                                         | 29.4 | 70                                          |
| BZX84C33ET1G  | BD2            | 31                                                           | 33  | 35   | 80                                                  | 30.8                                                         | 35   | 325                                                   | 31.1                                                         | 35.4 | 55                                                   | 0.05                        | 23.1               | 27.4                                                         | 33.4 | 70                                          |
| BZX84C36ET1G  | BD3            | 34                                                           | 36  | 38   | 90                                                  | 33.8                                                         | 38   | 350                                                   | 34.1                                                         | 38.4 | 60                                                   | 0.05                        | 25.2               | 30.4                                                         | 37.4 | 70                                          |
| BZX84C39ET1G  | BD4            | 37                                                           | 39  | 41   | 130                                                 | 36.7                                                         | 41   | 350                                                   | 37.1                                                         | 41.5 | 70                                                   | 0.05                        | 27.3               | 33.4                                                         | 41.2 | 45                                          |
| BZX84C43ET1G  | BK6            | 40                                                           | 43  | 46   | 150                                                 | 39.7                                                         | 46   | 375                                                   | 40.1                                                         | 46.5 | 80                                                   | 0.05                        | 30.1               | 37.6                                                         | 46.6 | 40                                          |
| BZX84C47ET1G  | BD5            | 44                                                           | 47  | 50   | 170                                                 | 43.7                                                         | 50   | 375                                                   | 44.1                                                         | 50.5 | 90                                                   | 0.05                        | 32.9               | 42                                                           | 51.8 | 40                                          |
| BZX84C51ET1G  | BD6            | 48                                                           | 51  | 54   | 180                                                 | 47.6                                                         | 54   | 400                                                   | 48.1                                                         | 54.6 | 100                                                  | 0.05                        | 35.7               | 46.6                                                         | 57.2 | 40                                          |
| BZX84C56ET1G  | BD7            | 52                                                           | 56  | 60   | 200                                                 | 51.5                                                         | 60   | 425                                                   | 52.1                                                         | 60.8 | 110                                                  | 0.05                        | 39.2               | 52.2                                                         | 63.8 | 40                                          |
| BZX84C62ET1G  | BD8            | 58                                                           | 62  | 66   | 215                                                 | 57.4                                                         | 66   | 450                                                   | 58.2                                                         | 67   | 120                                                  | 0.05                        | 43.4               | 58.8                                                         | 71.6 | 35                                          |
| BZX84C68ET1G  | BD9            | 64                                                           | 68  | 72   | 240                                                 | 63.4                                                         | 72   | 475                                                   | 64.2                                                         | 73.2 | 130                                                  | 0.05                        | 47.6               | 65.6                                                         | 79.8 | 35                                          |
| BZX84C75ET1G  | BE1            | 70                                                           | 75  | 79   | 255                                                 | 69.4                                                         | 79   | 500                                                   | 70.3                                                         | 80.2 | 140                                                  | 0.05                        | 52.5               | 73.4                                                         | 88.6 | 35                                          |

4. Zener voltage is measured with a pulse test current  $I_Z$  at an ambient temperature of  $25^\circ\text{C}$

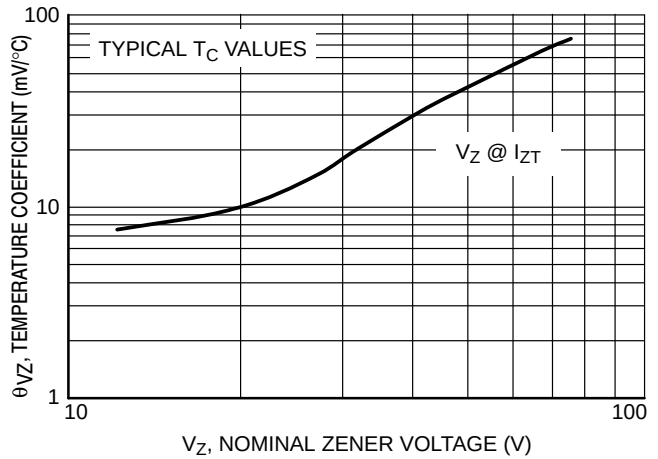
\* Include SZ-prefix devices where applicable.

# BZX84CxxxET1G Series, SZBZX84CxxxET1G Series

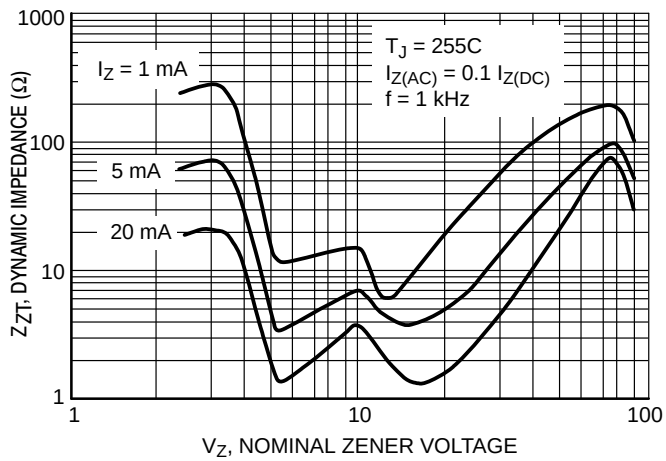
## TYPICAL CHARACTERISTICS



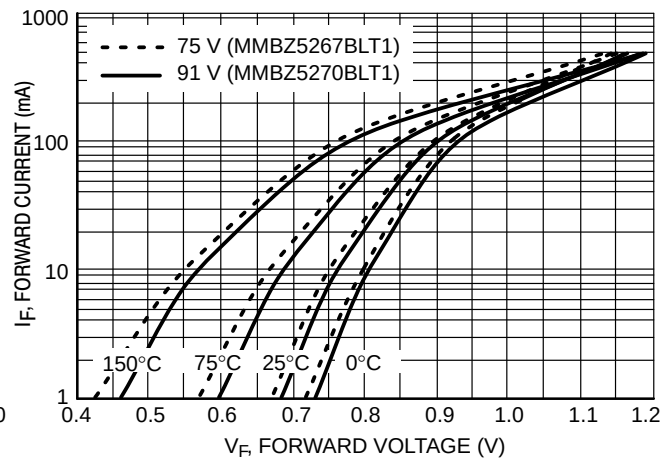
**Figure 1. Temperature Coefficients**  
(Temperature Range -55°C to +150°C)



**Figure 2. Temperature Coefficients**  
(Temperature Range -55°C to +150°C)



**Figure 3. Effect of Zener Voltage on**  
**Zener Impedance**



**Figure 4. Typical Forward Voltage**

# BZX84CxxxET1G Series, SZBZX84CxxxET1G Series

## TYPICAL CHARACTERISTICS

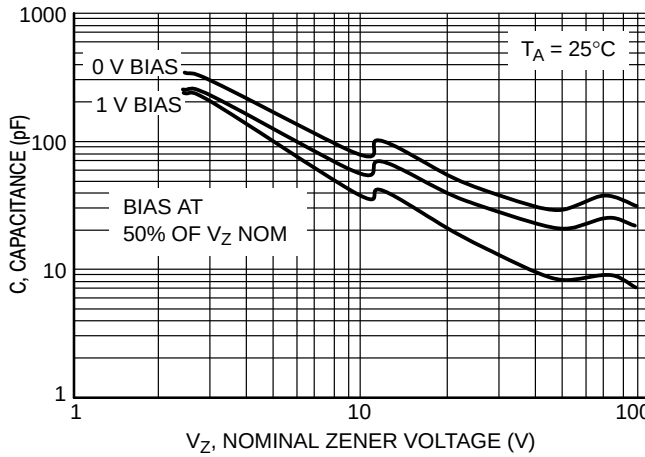


Figure 5. Typical Capacitance

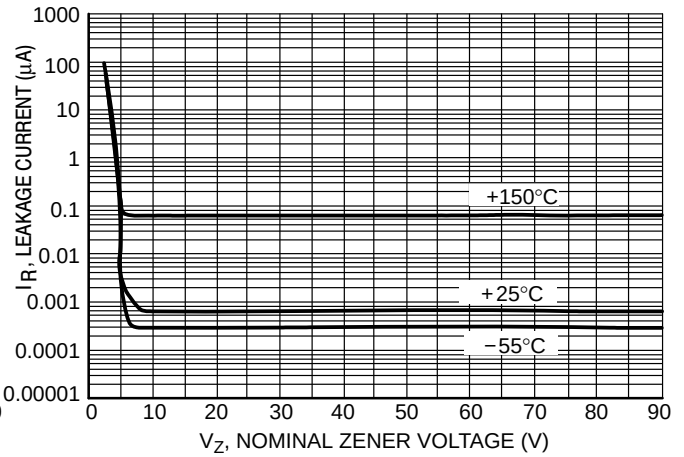


Figure 6. Typical Leakage Current

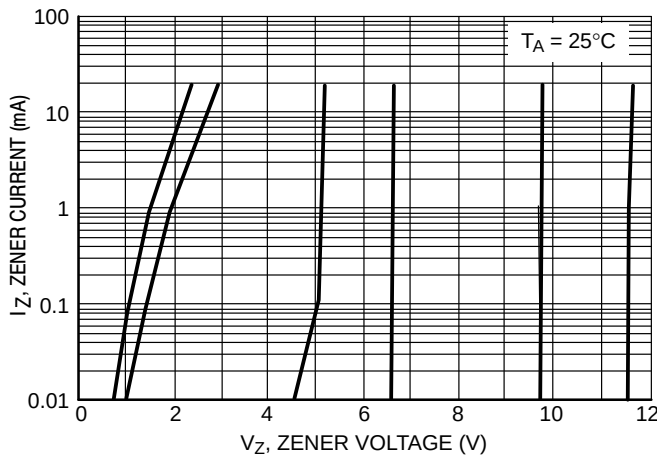


Figure 7. Zener Voltage versus Zener Current  
( $V_Z$  Up to 12 V)

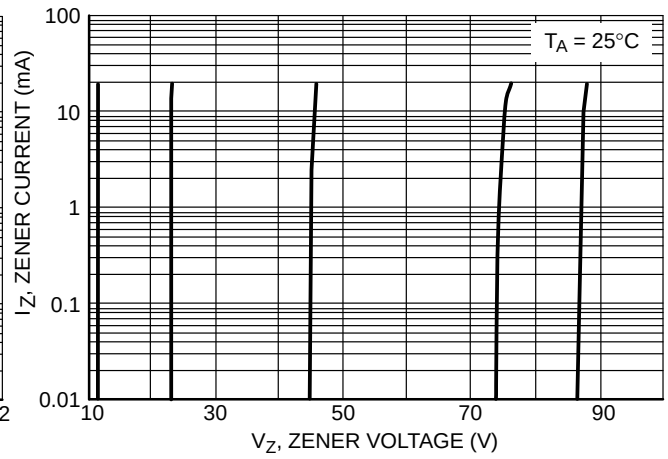


Figure 8. Zener Voltage versus Zener Current  
(12 V to 91 V)

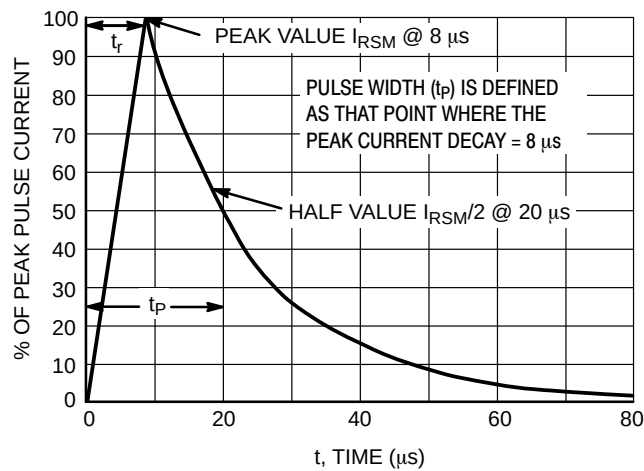


Figure 9.  $8 \times 20 \mu s$  Pulse Waveform

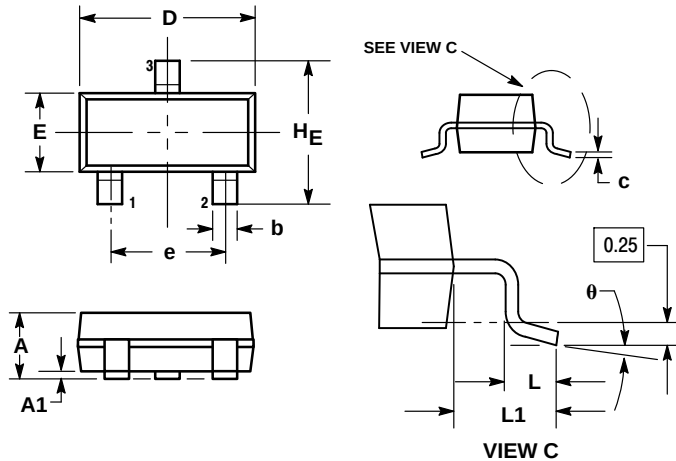
# BZX84CxxxET1G Series, SZBZX84CxxxET1G Series

## PACKAGE DIMENSIONS

### SOT-23 (TO-236)

CASE 318-08

ISSUE AP



#### NOTES:

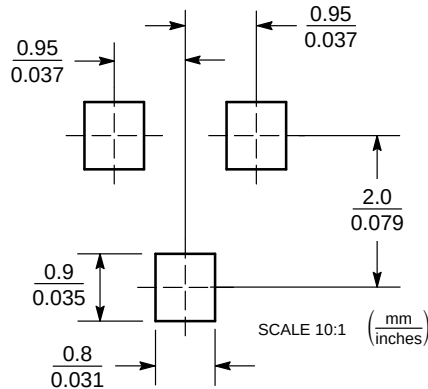
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

| DIM | MILLIMETERS |      |      | INCHES |       |       |
|-----|-------------|------|------|--------|-------|-------|
|     | MIN         | NOM  | MAX  | MIN    | NOM   | MAX   |
| A   | 0.89        | 1.00 | 1.11 | 0.035  | 0.040 | 0.044 |
| A1  | 0.01        | 0.06 | 0.10 | 0.001  | 0.002 | 0.004 |
| b   | 0.37        | 0.44 | 0.50 | 0.015  | 0.018 | 0.020 |
| c   | 0.09        | 0.13 | 0.18 | 0.003  | 0.005 | 0.007 |
| D   | 2.80        | 2.90 | 3.04 | 0.110  | 0.114 | 0.120 |
| E   | 1.20        | 1.30 | 1.40 | 0.047  | 0.051 | 0.055 |
| e   | 1.78        | 1.90 | 2.04 | 0.070  | 0.075 | 0.081 |
| L   | 0.10        | 0.20 | 0.30 | 0.004  | 0.008 | 0.012 |
| L1  | 0.35        | 0.54 | 0.69 | 0.014  | 0.021 | 0.029 |
| HE  | 2.10        | 2.40 | 2.64 | 0.083  | 0.094 | 0.104 |
| θ   | 0°          | —    | 10°  | 0°     | —     | 10°   |

#### STYLE 8:

1. ANODE
2. NO CONNECTION
3. CATHODE

### SOLDERING FOOTPRINT\*



\*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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