



**THE DATASHEET OF
BZX84J-B3V9,115**





BZX84J series

Single Zener diodes

Rev. 2 — 1 August 2011

Product data sheet

1. Product profile

1.1 General description

General-purpose Zener diodes in a SOD323F (SC-90) very small and flat lead Surface-Mounted Device (SMD) plastic package.

1.2 Features and benefits

- Non-repetitive peak reverse power dissipation: ≤ 40 W
- Total power dissipation: ≤ 550 mW
- AEC-Q101 qualified
- Small plastic package suitable for surface-mounted design
- Wide working voltage range: nominal 2.4 V to 75 V (E24 range)
- Two tolerance series: $\pm 2\%$ and $\pm 5\%$
- Low differential resistance

1.3 Applications

- General regulation functions

1.4 Quick reference data

Table 1. Quick reference data

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|-----------|---|----------------|-------|-----|-----|------|
| V_F | forward voltage | $I_F = 100$ mA | [1] - | - | 1.1 | V |
| P_{ZSM} | non-repetitive peak reverse power dissipation | | [2] - | - | 40 | W |

[1] Pulse test: $t_p \leq 300$ μ s; $\delta \leq 0.02$.

[2] $t_p = 100$ μ s; square wave; $T_j = 25$ °C prior to surge

2. Pinning information

Table 2. Pinning

| Pin | Description | Simplified outline | Symbol |
|-----|-------------|--------------------|--------|
| 1 | cathode | [1] | |
| 2 | anode | | |

[1] The marking bar indicates the cathode.

3. Ordering information

Table 3. Ordering information

| Type number | Package | | |
|--|---------|--|---------|
| | Name | Description | Version |
| BZX84J-B2V4 to BZX84J-C75 ^[1] | SC-90 | plastic surface-mounted package; 2 leads | SOD323F |

[1] The series consists of 74 types with nominal working voltages from 2.4 V to 75 V.

4. Marking

Table 4. Marking codes

| Type number | Marking code | Type number | Marking code | Type number | Marking code | Type number | Marking code |
|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|
| BZX84J-B2V4 | SL | BZX84J-B15 | SC | BZX84J-C2V4 | U3 | BZX84J-C15 | TV |
| BZX84J-B2V7 | SM | BZX84J-B16 | SD | BZX84J-C2V7 | U4 | BZX84J-C16 | TW |
| BZX84J-B3V0 | ST | BZX84J-B18 | SE | BZX84J-C3V0 | U9 | BZX84J-C18 | TX |
| BZX84J-B3V3 | SU | BZX84J-B20 | SF | BZX84J-C3V3 | UA | BZX84J-C20 | TY |
| BZX84J-B3V6 | SV | BZX84J-B22 | SG | BZX84J-C3V6 | UB | BZX84J-C22 | TZ |
| BZX84J-B3V9 | SW | BZX84J-B24 | SH | BZX84J-C3V9 | UC | BZX84J-C24 | U1 |
| BZX84J-B4V3 | SZ | BZX84J-B27 | SK | BZX84J-C4V3 | UF | BZX84J-C27 | U2 |
| BZX84J-B4V7 | TA | BZX84J-B30 | SN | BZX84J-C4V7 | UG | BZX84J-C30 | U5 |
| BZX84J-B5V1 | TD | BZX84J-B33 | SP | BZX84J-C5V1 | UL | BZX84J-C33 | U6 |
| BZX84J-B5V6 | TE | BZX84J-B36 | SR | BZX84J-C5V6 | UM | BZX84J-C36 | U7 |
| BZX84J-B6V2 | TH | BZX84J-B39 | SS | BZX84J-C6V2 | UR | BZX84J-C39 | U8 |
| BZX84J-B6V8 | TK | BZX84J-B43 | SX | BZX84J-C6V8 | US | BZX84J-C43 | UD |
| BZX84J-B7V5 | TM | BZX84J-B47 | SY | BZX84J-C7V5 | UU | BZX84J-C47 | UE |
| BZX84J-B8V2 | TN | BZX84J-B51 | TB | BZX84J-C8V2 | UV | BZX84J-C51 | UH |
| BZX84J-B9V1 | TP | BZX84J-B56 | TC | BZX84J-C9V1 | UW | BZX84J-C56 | UK |
| BZX84J-B10 | S8 | BZX84J-B62 | TF | BZX84J-C10 | TR | BZX84J-C62 | UN |
| BZX84J-B11 | S9 | BZX84J-B68 | TG | BZX84J-C11 | TS | BZX84J-C68 | UP |
| BZX84J-B12 | SA | BZX84J-B75 | TL | BZX84J-C12 | TT | BZX84J-C75 | UT |
| BZX84J-B13 | SB | - | - | BZX84J-C13 | TU | - | - |

5. Limiting values

Table 5. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134).

| Symbol | Parameter | Conditions | Min | Max | Unit |
|-----------|---|-----------------------------|-------|---|------|
| I_F | forward current | | - | 250 | mA |
| I_{ZSM} | non-repetitive peak reverse current | | [1] - | see Table 8 and 9 | |
| P_{ZSM} | non-repetitive peak reverse power dissipation | | [1] - | 40 | W |
| P_{tot} | total power dissipation | $T_{amb} \leq 25\text{ °C}$ | [2] - | 550 | mW |
| T_j | junction temperature | | - | 150 | °C |
| T_{amb} | ambient temperature | | -55 | +150 | °C |
| T_{stg} | storage temperature | | -65 | +150 | °C |

[1] $t_p = 100\ \mu\text{s}$; square wave; $T_j = 25\text{ °C}$ prior to surge

[2] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated, mounting pad for cathode 1 cm^2 .

6. Thermal characteristics

Table 6. Thermal characteristics

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|----------------|--|-------------|-------|-----|-----|------|
| $R_{th(j-a)}$ | thermal resistance from junction to ambient | in free air | [1] - | - | 230 | K/W |
| $R_{th(j-sp)}$ | thermal resistance from junction to solder point | | [2] - | - | 55 | K/W |

[1] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for cathode 1 cm^2 .

[2] Soldering point of cathode tab.

7. Characteristics

Table 7. Characteristics

$T_j = 25\text{ °C}$ unless otherwise specified.

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|--------|-----------------|-----------------------|-----|-----|-----|------|
| V_F | forward voltage | | [1] | | | |
| | | $I_F = 10\text{ mA}$ | - | - | 0.9 | V |
| | | $I_F = 100\text{ mA}$ | - | - | 1.1 | V |

[1] Pulse test: $t_p \leq 300\ \mu\text{s}$; $\delta \leq 0.02$.

Table 8. Characteristics per type; BZX84J-B2V4 to BZX84J-C24

 $T_j = 25\text{ °C}$ unless otherwise specified.

| BZX84J-xxx | Sel | Working voltage V_Z (V) | | Differential resistance r_{dif} (Ω) | | Reverse current I_R (μ A) | | Temperature coefficient S_Z (mV/K) | | Diode capacitance C_d (pF) ^[1] | Non-repetitive peak reverse current I_{ZSM} (A) ^[2] |
|------------|-----|---------------------------|------|--|---------------------|----------------------------------|-----------|--------------------------------------|-----|---|--|
| | | $I_Z = 5\text{ mA}$ | | $I_Z = 1\text{ mA}$ | $I_Z = 5\text{ mA}$ | Max | V_R (V) | $I_Z = 5\text{ mA}$ | | | |
| | | Min | Max | Max | Max | | | Min | Max | Max | Max |
| 2V4 | B | 2.35 | 2.45 | 400 | 100 | 50 | 1 | -3.5 | 0 | 450 | 12 |
| | C | 2.2 | 2.6 | | | | | | | | |
| 2V7 | B | 2.65 | 2.75 | 450 | 100 | 20 | 1 | -3.5 | 0 | 440 | 12 |
| | C | 2.5 | 2.9 | | | | | | | | |
| 3V0 | B | 2.94 | 3.06 | 500 | 95 | 10 | 1 | -3.5 | 0 | 425 | 12 |
| | C | 2.8 | 3.2 | | | | | | | | |
| 3V3 | B | 3.23 | 3.37 | 500 | 95 | 5 | 1 | -3.5 | 0 | 410 | 12 |
| | C | 3.1 | 3.5 | | | | | | | | |
| 3V6 | B | 3.53 | 3.67 | 500 | 90 | 5 | 1 | -3.5 | 0 | 390 | 12 |
| | C | 3.4 | 3.8 | | | | | | | | |
| 3V9 | B | 3.82 | 3.98 | 500 | 90 | 3 | 1 | -3.5 | 0 | 370 | 12 |
| | C | 3.7 | 4.1 | | | | | | | | |
| 4V3 | B | 4.21 | 4.39 | 600 | 90 | 3 | 1 | -3.5 | 0 | 350 | 12 |
| | C | 4 | 4.6 | | | | | | | | |
| 4V7 | B | 4.61 | 4.79 | 500 | 80 | 3 | 2 | -3.5 | 0.2 | 325 | 12 |
| | C | 4.4 | 5 | | | | | | | | |
| 5V1 | B | 5 | 5.2 | 480 | 60 | 2 | 2 | -2.7 | 1.2 | 300 | 12 |
| | C | 4.8 | 5.4 | | | | | | | | |
| 5V6 | B | 5.49 | 5.71 | 400 | 40 | 1 | 2 | -2 | 2.5 | 275 | 12 |
| | C | 5.2 | 6 | | | | | | | | |
| 6V2 | B | 6.08 | 6.32 | 150 | 10 | 3 | 4 | 0.4 | 3.7 | 250 | 12 |
| | C | 5.8 | 6.6 | | | | | | | | |
| 6V8 | B | 6.66 | 6.94 | 80 | 15 | 2 | 4 | 1.2 | 4.5 | 215 | 12 |
| | C | 6.4 | 7.2 | | | | | | | | |
| 7V5 | B | 7.35 | 7.65 | 80 | 10 | 1 | 5 | 2.5 | 5.3 | 170 | 4 |
| | C | 7 | 7.9 | | | | | | | | |
| 8V2 | B | 8.04 | 8.36 | 80 | 10 | 0.7 | 5 | 3.2 | 6.2 | 150 | 4 |
| | C | 7.7 | 8.7 | | | | | | | | |
| 9V1 | B | 8.92 | 9.28 | 100 | 10 | 0.5 | 6 | 3.8 | 7 | 120 | 3 |
| | C | 8.5 | 9.6 | | | | | | | | |
| 10 | B | 9.8 | 10.2 | 150 | 10 | 0.2 | 7 | 4.5 | 8 | 110 | 3 |
| | C | 9.4 | 10.6 | | | | | | | | |
| 11 | B | 10.8 | 11.2 | 150 | 10 | 0.1 | 8 | 5.4 | 9 | 108 | 2.5 |
| | C | 10.4 | 11.6 | | | | | | | | |
| 12 | B | 11.8 | 12.2 | 150 | 10 | 0.1 | 8 | 6 | 10 | 105 | 2.5 |
| | C | 11.4 | 12.7 | | | | | | | | |

Table 8. Characteristics per type; BZX84J-B2V4 to BZX84J-C24 ...continued $T_j = 25\text{ °C}$ unless otherwise specified.

| BZX84J-xxx | Sel | Working voltage V_Z (V) | | Differential resistance r_{dif} (Ω) | | Reverse current I_R (μ A) | | Temperature coefficient S_Z (mV/K) | | Diode capacitance C_d (pF) ^[1] | Non-repetitive peak reverse current I_{ZSM} (A) ^[2] |
|------------|-----|------------------------------|------|---|---------------------|-------------------------------------|-----------|---|-----|--|---|
| | | $I_Z = 5\text{ mA}$ | | $I_Z = 1\text{ mA}$ | $I_Z = 5\text{ mA}$ | Max | V_R (V) | $I_Z = 5\text{ mA}$ | | | |
| | | Min | Max | Max | Max | | | Min | Max | Max | Max |
| 13 | B | 12.7 | 13.3 | 170 | 10 | 0.1 | 8 | 7 | 11 | 103 | 2.5 |
| | C | 12.4 | 14.1 | | | | | | | | |
| 15 | B | 14.7 | 15.3 | 200 | 15 | 0.05 | 10.5 | 9.2 | 13 | 99 | 2 |
| | C | 13.8 | 15.6 | | | | | | | | |
| 16 | B | 15.7 | 16.3 | 200 | 20 | 0.05 | 11.2 | 10.4 | 14 | 97 | 1.5 |
| | C | 15.3 | 17.1 | | | | | | | | |
| 18 | B | 17.6 | 18.4 | 225 | 20 | 0.05 | 12.6 | 12.4 | 16 | 93 | 1.5 |
| | C | 16.8 | 19.1 | | | | | | | | |
| 20 | B | 19.6 | 20.4 | 225 | 20 | 0.05 | 14 | 14.4 | 18 | 88 | 1.5 |
| | C | 18.8 | 21.2 | | | | | | | | |
| 22 | B | 21.6 | 22.4 | 250 | 25 | 0.05 | 15.4 | 16.4 | 20 | 84 | 1.25 |
| | C | 20.8 | 23.3 | | | | | | | | |
| 24 | B | 23.5 | 24.5 | 250 | 30 | 0.05 | 16.8 | 18.4 | 22 | 80 | 1.25 |
| | C | 22.8 | 25.6 | | | | | | | | |

[1] $f = 1\text{ MHz}$; $V_R = 0\text{ V}$ [2] $t_p = 100\text{ }\mu\text{s}$; square wave; $T_j = 25\text{ °C}$ prior to surge

Table 9. Characteristics per type; BZX84J-B27 to BZX84J-C75 $T_j = 25\text{ °C}$ unless otherwise specified.

| BZX84J-xxx | Sel | Working voltage V_Z (V) | | Differential resistance r_{dif} (Ω) | | Reverse current I_R (μ A) | | Temperature coefficient S_Z (mV/K) | | Diode capacitance C_d (pF) ^[1] | Non-repetitive peak reverse current I_{ZSM} (A) ^[2] |
|------------|-----|------------------------------|------|---|---------------------|-------------------------------------|---------------------|---|------|--|---|
| | | $I_Z = 2\text{ mA}$ | | $I_Z = 0.5\text{ mA}$ | $I_Z = 2\text{ mA}$ | V_R (V) | $I_Z = 2\text{ mA}$ | | | | |
| | | Min | Max | Max | Max | | Min | Max | Max | | |
| 27 | B | 26.5 | 27.5 | 250 | 40 | 0.05 | 18.9 | 21.4 | 25.3 | 73 | 1 |
| | C | 25.1 | 28.9 | | | | | | | | |
| 30 | B | 29.4 | 30.6 | 250 | 40 | 0.05 | 21 | 24.4 | 29.4 | 66 | 1 |
| | C | 28 | 32 | | | | | | | | |
| 33 | B | 32.3 | 33.7 | 275 | 40 | 0.05 | 23.1 | 27.4 | 33.4 | 60 | 0.9 |
| | C | 31 | 35 | | | | | | | | |
| 36 | B | 35.3 | 36.7 | 300 | 60 | 0.05 | 25.2 | 30.4 | 37.4 | 59 | 0.8 |
| | C | 34 | 38 | | | | | | | | |
| 39 | B | 38.2 | 39.8 | 300 | 75 | 0.05 | 27.3 | 33.4 | 41.2 | 58 | 0.7 |
| | C | 37 | 41 | | | | | | | | |
| 43 | B | 42.1 | 43.9 | 325 | 80 | 0.05 | 30.1 | 37.6 | 46.6 | 56 | 0.6 |
| | C | 40 | 46 | | | | | | | | |
| 47 | B | 46.1 | 47.9 | 325 | 90 | 0.05 | 32.9 | 42 | 51.8 | 55 | 0.5 |
| | C | 44 | 50 | | | | | | | | |
| 51 | B | 50 | 52 | 350 | 110 | 0.05 | 35.7 | 46.6 | 57.2 | 52 | 0.4 |
| | C | 48 | 54 | | | | | | | | |
| 56 | B | 54.9 | 57.1 | 375 | 120 | 0.05 | 39.2 | 52.2 | 63.8 | 49 | 0.3 |
| | C | 52 | 60 | | | | | | | | |
| 62 | B | 60.8 | 63.2 | 400 | 140 | 0.05 | 43.4 | 58.8 | 71.6 | 44 | 0.3 |
| | C | 58 | 66 | | | | | | | | |
| 68 | B | 66.6 | 69.4 | 400 | 160 | 0.05 | 47.6 | 65.6 | 79.8 | 40 | 0.25 |
| | C | 64 | 72 | | | | | | | | |
| 75 | B | 73.5 | 76.5 | 400 | 175 | 0.05 | 52.5 | 73.4 | 88.6 | 35 | 0.2 |
| | C | 70 | 79 | | | | | | | | |

[1] $f = 1\text{ MHz}$; $V_R = 0\text{ V}$ [2] $t_p = 100\text{ }\mu\text{s}$; square wave; $T_j = 25\text{ °C}$ prior to surge



- (1) $T_j = 25^\circ\text{C}$ (prior to surge)
- (2) $T_j = 150^\circ\text{C}$ (prior to surge)

Fig 1. Non-repetitive peak reverse power dissipation as a function of pulse duration; maximum values



$T_j = 25^\circ\text{C}$

Fig 2. Forward current as a function of forward voltage; typical values



BZX84J-B/C2V4 to BZX84J-B/C4V7
 $T_j = 25^\circ\text{C}$ to 150°C

Fig 3. Temperature coefficient as a function of working current; typical values



BZX84J-B/C5V1 to BZX84J-B/C15
 $T_j = 25^\circ\text{C}$ to 150°C

Fig 4. Temperature coefficient as a function of working current; typical values



$T_j = 25\text{ }^\circ\text{C}$
 BZX84J-B/C2V7 to BZX84J-B/C8V2

Fig 5. Working current as a function of working voltage; typical values



$T_j = 25\text{ }^\circ\text{C}$
 BZX84J-B/C10 to BZX84J-B/C36

Fig 6. Working current as a function of working voltage; typical values

8. Test information

8.1 Quality information

This product has been qualified in accordance with the Automotive Electronics Council (AEC) standard Q101 - *Stress test qualification for discrete semiconductors*, and is suitable for use in automotive applications.

9. Package outline



Fig 7. Package outline SOD323F (SC-90)

10. Packing information

Table 10. Packing methods

The indicated -xxx are the last three digits of the 12NC ordering code.^[1]

| Type number | Package | Description | Packing quantity | |
|---------------------------|---------|--------------------------------|------------------|-------|
| | | | 3000 | 10000 |
| BZX84J-B2V4 to BZX84J-C75 | SOD323F | 4 mm pitch, 8 mm tape and reel | -115 | -135 |

[1] For further information and the availability of packing methods, see [Section 14](#).

11. Soldering



Fig 8. Reflow soldering footprint SOD323F (SC-90)

12. Revision history

Table 11. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|----------------|--|--------------------|---------------|----------------|
| BZX84J_SER v.2 | 20110801 | Product data sheet | - | BZX84J_SER v.1 |
| Modifications: | <ul style="list-style-type: none">• Figure 5 and Figure 6 updated• Figure 8 updated• Section 1.2 “Features and benefits” updated• Section 5 “Limiting values” updated• Section 8 “Test information” added• Section 13 “Legal information” updated | | | |
| BZX84J_SER v.1 | 20070301 | Product data sheet | - | - |

13. Legal information

13.1 Data sheet status

| Document status ^{[1][2]} | Product status ^[3] | Definition |
|-----------------------------------|-------------------------------|---|
| Objective [short] data sheet | Development | This document contains data from the objective specification for product development. |
| Preliminary [short] data sheet | Qualification | This document contains data from the preliminary specification. |
| Product [short] data sheet | Production | This document contains the product specification. |

[1] Please consult the most recently issued document before initiating or completing a design.

[2] The term 'short data sheet' is explained in section "Definitions".

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15. Contents

| | | |
|-----------|--|-----------|
| 1 | Product profile | 1 |
| 1.1 | General description | 1 |
| 1.2 | Features and benefits | 1 |
| 1.3 | Applications | 1 |
| 1.4 | Quick reference data | 1 |
| 2 | Pinning information | 1 |
| 3 | Ordering information | 2 |
| 4 | Marking | 2 |
| 5 | Limiting values | 3 |
| 6 | Thermal characteristics | 3 |
| 7 | Characteristics | 3 |
| 8 | Test information | 8 |
| 8.1 | Quality information | 8 |
| 9 | Package outline | 9 |
| 10 | Packing information | 9 |
| 11 | Soldering | 9 |
| 12 | Revision history | 10 |
| 13 | Legal information | 11 |
| 13.1 | Data sheet status | 11 |
| 13.2 | Definitions | 11 |
| 13.3 | Disclaimers | 11 |
| 13.4 | Trademarks | 12 |
| 14 | Contact information | 12 |
| 15 | Contents | 13 |

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