

Single Zener diodes Rev. 2 — 1 August 2011

Product data sheet

Wide working voltage range: nominal

■ Two tolerance series: ±2 % and ±5 %

2.4 V to 75 V (E24 range)

Low differential resistance

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: \leq 550 mW
- AEC-Q101 qualified
- Small plastic package suitable for surface-mounted design

1.3 Applications

General regulation functions

1.4 Quick reference data

Table 1. Quick reference data

| | quient rener entre quita | | | | | |
|------------------|---|-------------------------|--------------|-----|-----|------|
| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
| V _F | forward voltage | I _F = 100 mA | <u>[1]</u> _ | - | 1.1 | V |
| P _{ZSM} | non-repetitive peak reverse power dissipation | | [2] _ | - | 40 | W |

 $\label{eq:point} \begin{tabular}{ll} \begin{$

[2] $t_p = 100 \ \mu s$; square wave; $T_j = 25 \ ^\circ C$ prior to surge

2. Pinning information

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

[1] The marking bar indicates the cathode.



Single Zener diodes

3. Ordering information

| Table 3. Ordering information Type number Package | | | | | | | | |
|---|-------|--|---------|--|--|--|--|--|
| | Name | Description | Version | | | | | |
| BZX84J-B2V4 to B ZX84J-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. Mark | king 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 | ΤX |
| BZX84J-B3V3 | SU | BZX84J-B20 | SF | BZX84J-C3V3 | UA | BZX84J-C20 | ΤY |
| 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 | ТМ | BZX84J-B47 | SY | BZX84J-C7V5 | UU | BZX84J-C47 | UE |
| BZX84J-B8V2 | TN | BZX84J-B51 | ТВ | 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

| Symbol | Parameter | Conditions | Min | Max | Unit |
|------------------|---|------------------------------|--------------|---------------------------------------|------|
| l _F | forward current | | - | 250 | mA |
| I _{ZSM} | non-repetitive peak reverse current | | <u>[1]</u> - | see <u>Table 8</u> and <u>9</u> | |
| P _{ZSM} | non-repetitive peak reverse power dissipation | | <u>[1]</u> - | 40 | W |
| P _{tot} | total power dissipation | $T_{amb} \leq 25 ~^{\circ}C$ | [2] _ | 550 | mW |
| Tj | junction temperature | | - | 150 | °C |
| T _{amb} | ambient temperature | | -55 | +150 | °C |
| T _{stg} | storage temperature | | -65 | +150 | °C |

[1] $t_p = 100 \ \mu s$; square wave; $T_j = 25 \ ^\circ C$ prior to surge

[2] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated, mounting pad for cathode 1 cm².

6. Thermal characteristics

| Table 6. | Thermal characteristics | | | | | |
|-----------------------|--|-------------|--------------|-----|-----|------|
| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
| R _{th(j-a)} | thermal resistance from junction to ambient | in free air | <u>[1]</u> - | - | 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 cm².

[2] Soldering point of cathode tab.

7. Characteristics

Table 7.Characteristics

 $T_i = 25$ °C unless otherwise specified.

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|----------------|-----------------|-------------------------|------------|-----|-----|------|
| V _F | forward voltage | | <u>[1]</u> | | | |
| | | I _F = 10 mA | - | - | 0.9 | V |
| | | I _F = 100 mA | - | - | 1.1 | V |

 $\label{eq:point} \begin{tabular}{ll} \begin{$

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| $T_j = 25 $ °C | c unless | otherwis | se specifi | ed. | | | | | | | |
|----------------|----------|---|------------|---|-----------------------|---|--------------------|--|------|--|--|
| BZX84J- xxx | Sel | Workir voltage V _Z (V) | - | Differentia resistance r _{dif} (Ω) | | Revers curren I _R (μΑ) | nt | Tempe coeffic S _Z (m\ | ient | Diode capacitance C _d (pF) ^[1] | Non-repetitive peak reverse current I _{ZSM} (A) ^[2] |
| | | I _Z = 5 n | nA | I _Z = 1 mA | I _Z = 5 mA | | | l _z = 5 r | nA | | |
| | | Min | Max | Max | Max | Max | V _R (V) | Min | Мах | Max | Max |
| 2V4 | В | 2.35 | 2.45 | 400 | 100 | 50 | 1 | -3.5 | 0 | 450 | 12 |
| | С | 2.2 | 2.6 | | | | | | | | |
| 2V7 | В | 2.65 | 2.75 | 450 | 100 | 20 | 1 | -3.5 | 0 | 440 | 12 |
| | С | 2.5 | 2.9 | | | | | | | | |
| 3V0 | В | 2.94 | 3.06 | 500 | 95 | 10 | 1 | -3.5 | 0 | 425 | 12 |
| | С | 2.8 | 3.2 | | | | | | | | |
| 3V3 | В | 3.23 | 3.37 | 500 | 95 | 5 | 1 | -3.5 | 0 | 410 | 12 |
| | С | 3.1 | 3.5 | | | | | | | | |
| 3V6 | В | 3.53 | 3.67 | 500 | 90 | 5 | 1 | -3.5 | 0 | 390 | 12 |
| | С | 3.4 | 3.8 | | | | | | | | |
| 3V9 | В | 3.82 | 3.98 | 500 | 90 | 3 | 1 | -3.5 | 0 | 370 | 12 |
| | С | 3.7 | 4.1 | | | | | | | | |
| 4V3 | В | 4.21 | 4.39 | 600 | 90 | 3 | 1 | -3.5 | 0 | 350 | 12 |
| | С | 4 | 4.6 | | | | | | | | |
| 4V7 | В | 4.61 | 4.79 | 500 | 80 | 3 | 2 | -3.5 | 0.2 | 325 | 12 |
| | С | 4.4 | 5 | | | | | | | | |
| 5V1 | В | 5 | 5.2 | 480 | 60 | 2 | 2 | -2.7 | 1.2 | 300 | 12 |
| | С | 4.8 | 5.4 | | | | | | | | |
| 5V6 | В | 5.49 | 5.71 | 400 | 40 | 1 | 2 | -2 | 2.5 | 275 | 12 |
| | С | 5.2 | 6 | | | | | | | | |
| 6V2 | В | 6.08 | 6.32 | 150 | 10 | 3 | 4 | 0.4 | 3.7 | 250 | 12 |
| | С | 5.8 | 6.6 | | | | | | | | |
| 6V8 | В | 6.66 | 6.94 | 80 | 15 | 2 | 4 | 1.2 | 4.5 | 215 | 12 |
| | С | 6.4 | 7.2 | | | | | | | | |
| 7V5 | В | 7.35 | 7.65 | 80 | 10 | 1 | 5 | 2.5 | 5.3 | 170 | 4 |
| | С | 7 | 7.9 | | | | | | | | |
| 8V2 | В | 8.04 | 8.36 | 80 | 10 | 0.7 | 5 | 3.2 | 6.2 | 150 | 4 |
| | С | 7.7 | 8.7 | | | | | | | | |
| 9V1 | В | 8.92 | 9.28 | 100 | 10 | 0.5 | 6 | 3.8 | 7 | 120 | 3 |
| | С | 8.5 | 9.6 | | | | | | | | |
| 10 | В | 9.8 | 10.2 | 150 | 10 | 0.2 | 7 | 4.5 | 8 | 110 | 3 |
| | С | 9.4 | 10.6 | | | | | | | | |
| 11 | В | 10.8 | 11.2 | 150 | 10 | 0.1 | 8 | 5.4 | 9 | 108 | 2.5 |
| | С | 10.4 | 11.6 | | | | | | | | |
| 12 | В | 11.8 | 12.2 | 150 | 10 | 0.1 | 8 | 6 | 10 | 105 | 2.5 |
| | С | 11.4 | 12.7 | | | | | | | | |

Table 8.Characteristics per type; BZX84J-B2V4 to BZX84J-C24 $T_i = 25$ °C unless otherwise specified.

Product data sheet

BZX84J_SER

Single Zener diodes

| BZX84J- Sel xxx | | Sel Working voltage V _Z (V) | | Differenti resistance r _{dif} (Ω) | | Rever currei I _R (μΑ | nt | Tempo coeffi S _Z (m ¹ | | Diode capacitance C _d (pF) <u>^[1]</u> | Non-repetitive peak reverse current I _{ZSM} (A) ^[2] |
|--------------------|---|--|------|--|-----------------------|---------------------------------------|--------------------|---|-----|---|--|
| | | I _Z = 5 | mA | I _z = 1 mA | I _Z = 5 mA | - | | I _Z = 5 mA | | | |
| | | Min | Max | Мах | Max | Max | V _R (V) | Min | Max | Мах | Max |
| 13 | В | 12.7 | 13.3 | 170 | 10 | 0.1 | 8 | 7 11 | 11 | 103 | 2.5 |
| | С | 12.4 | 14.1 | | | | | | | | |
| 15 | В | 14.7 | 15.3 | 200 | 15 | 0.05 | 10.5 | 9.2 | 13 | 99 | 2 |
| | С | 13.8 | 15.6 | | | | | | | | |
| 16 | В | 15.7 | 16.3 | 200 20 | 0.05 | 11.2 | 10.4 | 14 | 97 | 1.5 | |
| | С | 15.3 | 17.1 | | | | | | | | |
| 18 | В | 17.6 | 18.4 | 225 | 20 | 0.05 | 12.6 | 12.4 | 16 | 93 | 1.5 |
| | С | 16.8 | 19.1 | | | | | | | | |
| 20 | В | 19.6 | 20.4 | 225 | 20 | 0.05 | 14 | 14.4 | 18 | 88 | 1.5 |
| | С | 18.8 | 21.2 | | | | | | | | |
| 22 | В | 21.6 | 22.4 | 250 | 25 | 0.05 | 15.4 | 16.4 | 20 | 84 | 1.25 |
| | С | 20.8 | 23.3 | | | | | | | | |
| 24 | В | 23.5 | 24.5 | 250 | 30 | 0.05 | 16.8 | 18.4 | 22 | 80 | 1.25 |
| | С | 22.8 | 25.6 | | | | | | | | |

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

[1] $f = 1 \text{ MHz}; V_R = 0 \text{ V}$

[2] $t_p = 100 \ \mu s$; square wave; $T_j = 25 \ ^\circ C$ prior to surge

BZX84J_SER Product data sheet

Single Zener diodes

| BZX84J- xxx | SelWorking voltageDifferential resistanceVz (V)rdif (Ω) | | | current co | | erature cient V/K) | Diode capacitance C _d (pF) ^[1] | Non-repetitive peak reverse current I _{ZSM} (A) ^[2] | | | | |
|----------------|---|----------------------|------|-------------------------|-----------------------|--------------------------|--|--|---------|-----|------|--|
| | | l _z = 2 r | nA | l _z = 0.5 mA | I _Z = 2 mA | - | | I _Z = 2 | mA | - | | |
| | | Min | Max | Max | Max | Max | V _R (V) | Min | Max | Max | Max | |
| 27 | В | 26.5 | 27.5 | 250 | 40 | 0.05 | 18.9 | 21.4 | 25.3 | 73 | 1 | |
| | С | 25.1 | 28.9 | | | | | | | | | |
| 30 | В | 29.4 | 30.6 | 250 | 40 | 0.05 | 21 | 24.4 | 29.4 | 66 | 1 | |
| | С | 28 | 32 | | | | | | | | | |
| 33 | В | 32.3 | 33.7 | 275 | 40 | 0.05 | 23.1 | 27.4 | 33.4 | 60 | 0.9 | |
| | С | 31 | 35 | | | | | | | | | |
| 36 | В | 35.3 | 36.7 | 300 | 60 | 0.05 | 25.2 | 30.4 | 37.4 | 59 | 0.8 | |
| | С | 34 | 38 | | | | | | | | | |
| 39 | В | 38.2 | 39.8 | 300 | 75 | 0.05 | 27.3 | 33.4 | 41.2 | 58 | 0.7 | |
| | С | 37 | 41 | | | | | | | | | |
| 43 | В | 42.1 | 43.9 | 325 | 80 | 0.05 | 30.1 | 37.6 | 46.6 | 56 | 0.6 | |
| | С | 40 | 46 | | | | | | | | | |
| 47 | В | 46.1 | 47.9 | 325 | 90 | 0.05 | 0.05 32.9 | 32.9 42 | 42 51.8 | 55 | 0.5 | |
| | С | 44 | 50 | | | | | | | | | |
| 51 | В | 50 | 52 | 350 | 110 | 0.05 | 35.7 | 46.6 | 57.2 | 52 | 0.4 | |
| | С | 48 | 54 | | | | | | | | | |
| 56 | В | 54.9 | 57.1 | 375 | 120 | 0.05 | 39.2 | 52.2 | 63.8 | 49 | 0.3 | |
| | С | 52 | 60 | | | | | | | | | |
| 62 | В | 60.8 | 63.2 | 400 | 140 | 0.05 | 43.4 | 58.8 | 71.6 | 44 | 0.3 | |
| | С | 58 | 66 | | | | | | | | | |
| 68 | В | 66.6 | 69.4 | 400 | 160 | 0.05 | 47.6 | 65.6 | 79.8 | 40 | 0.25 | |
| | С | 64 | 72 | | | | | | | | | |
| 75 | В | 73.5 | 76.5 | 400 | 175 | 0.05 | 52.5 | 73.4 | 88.6 | 35 | 0.2 | |
| | С | 70 | 79 | | | | | | | | | |

Table 9. Characteristics per type; BZX84J-B27 to BZX84J-C75

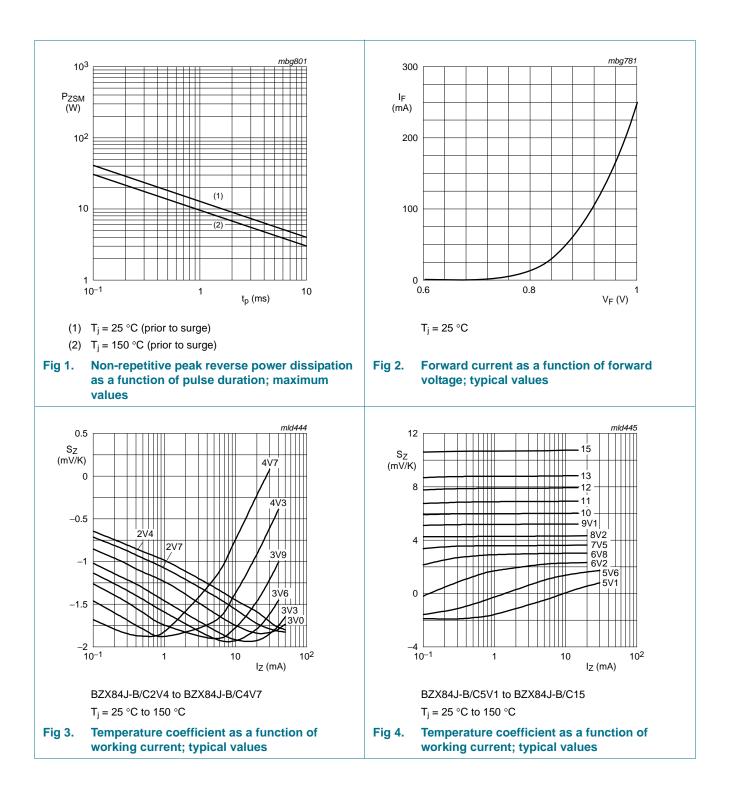
[1] $f = 1 \text{ MHz}; V_R = 0 \text{ V}$

[2] $t_p = 100 \ \mu s$; square wave; $T_j = 25 \ ^\circ C$ prior to surge

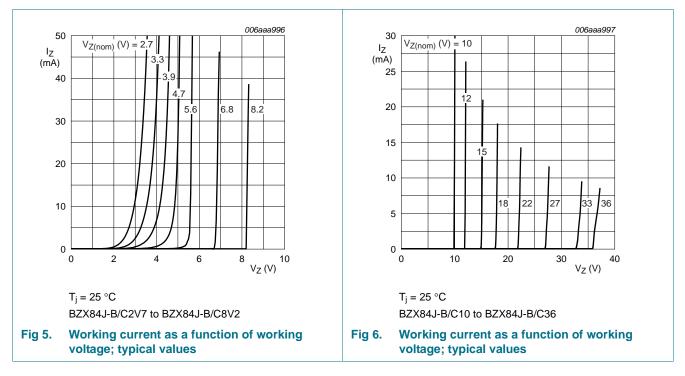
NXP Semiconductors

BZX84J series

Single Zener diodes



Single Zener diodes



8. Test information

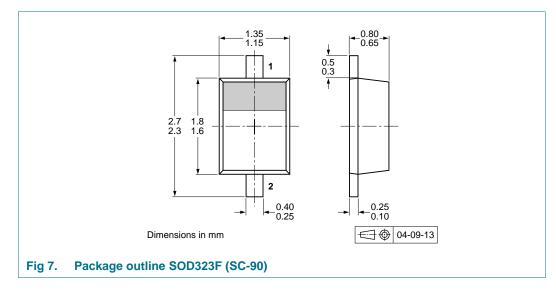
8.1 Quality information

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.



Single Zener diodes

9. Package outline



10. Packing information

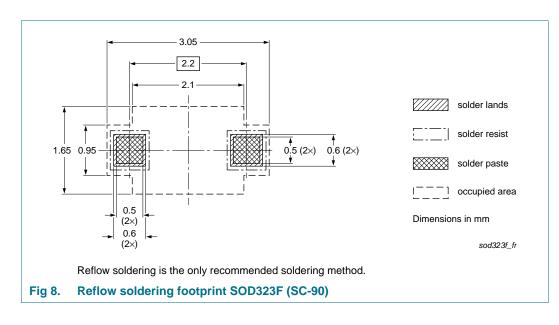
Table 10. Packing methods

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



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BZX84J SER

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: | Section 5 "Limit Section 8 "Test | | ed | |
| 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. |
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[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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Single Zener diodes

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