BZX84W series

Voltage regulator diodes

Rev. 2 — 1 January 2023

Product data sheet

1. General description

General-purpose Zener diodes in a SOT323 (SC-70) leadless very small Surface-Mounted Device (SMD) plastic package.

2. Features and benefits

- Wide working voltage range: nominal 2.4 V to 75 V (E24 range)
- Two tolerance series: ± 2 % and ± 5 %

3. Applications

- General regulation functions
- · High-frequency applications

4. Quick reference data

Table 1. Quick reference data

 T_{amb} = 25 °C unless otherwise specified.

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|------------------|-------------------------|---------------------------|-----|-----|-----|------|
| V _F | forward voltage | $I_F = 10 \text{ mA}$ [1] | - | - | 0.9 | V |
| P _{tot} | total power dissipation | [2] | - | - | 275 | mW |

- [1] Pulse test: $tp \le 100 \ \mu s$; $\delta \le 0.02$
- [2] Device mounted on a FR4 PCB, single-sided copper, tin-plated and standard footprint.

5. Pinning information

Table 2. Pinning

| Pin | Symbol | Description | Simplified outline | Graphic symbol |
|-----|--------|---------------|--------------------|----------------|
| 1 | Α | anode | <u></u> 3 | K |
| 2 | n.c. | not connected | | A n.c. |
| 3 | K | cathode | | aaa-006592 |
| | | | | ddd 000002 |
| | | | | |
| | | | | |



6. Ordering information

Table 3. Ordering information

| Type number | Package | | | | | | |
|-------------------------------------|---------|--|---------|--|--|--|--|
| | Name | Description | Version | | | | |
| BZX84W-B2V4 to BZX84W-C75 [1] | SC-70 | Plastic surface-mounted package; 3 leads | SOT323 | | | | |

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

7. Marking

Table 4. Marking Codes

| Type number | Mark. Code[1 | Type number | Mark. Code[1 | Type number | Mark. Code[1 | Type number | Mark. Code[1] |
|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|------------------|
| BZX84W-B2V4 | D3% | BZX84W-B15 | J5% | BZX84W-C2V4 | M3% | BZX84W-C15 | R8% |
| BZX84W-B2V7 | D4% | BZX84W-B16 | J6% | BZX84W-C2V7 | M4% | BZX84W-C16 | R9% |
| BZX84W-B3V0 | D5% | BZX84W-B18 | J7% | BZX84W-C3V0 | M5% | BZX84W-C18 | S2% |
| BZX84W-B3V3 | D6% | BZX84W-B20 | J8% | BZX84W-C3V3 | M6% | BZX84W-C20 | S3% |
| BZX84W-B3V6 | D7% | BZX84W-B22 | J9% | BZX84W-C3V6 | M7% | BZX84W-C22 | S4% |
| BZX84W-B3V9 | D8% | BZX84W-B24 | K5% | BZX84W-C3V9 | M9% | BZX84W-C24 | S5% |
| BZX84W-B4V3 | D9% | BZX84W-B27 | K6% | BZX84W-C4V3 | N3% | BZX84W-C27 | S6% |
| BZX84W-B4V7 | E4% | BZX84W-B30 | K7% | BZX84W-C4V7 | P3% | BZX84W-C30 | S7% |
| BZX84W-B5V1 | E5% | BZX84W-B33 | K8% | BZX84W-C5V1 | P4% | BZX84W-C33 | S8% |
| BZX84W-B5V6 | E6% | BZX84W-B36 | K9% | BZX84W-C5V6 | P5% | BZX84W-C36 | S9% |
| BZX84W-B6V2 | E7% | BZX84W-B39 | L2% | BZX84W-C6V2 | P6% | BZX84W-C39 | U2% |
| BZX84W-B6V8 | E8% | BZX84W-B43 | L3% | BZX84W-C6V8 | P7% | BZX84W-C43 | U3% |
| BZX84W-B7V5 | E9% | BZX84W-B47 | L5% | BZX84W-C7V5 | P8% | BZX84W-C47 | U4% |
| BZX84W-B8V2 | F5% | BZX84W-B51 | L6% | BZX84W-C8V2 | P9% | BZX84W-C51 | U5% |
| BZX84W-B9V1 | F7% | BZX84W-B56 | L7% | BZX84W-C9V1 | R3% | BZX84W-C56 | U6% |
| BZX84W-B10 | F9% | BZX84W-B62 | L8% | BZX84W-C10 | R4% | BZX84W-C62 | U7% |
| BZX84W-B11 | J2% | BZX84W-B68 | L9% | BZX84W-C11 | R5% | BZX84W-C68 | U8% |
| BZX84W-B12 | J3% | BZX84W-B75 | M2% | BZX84W-C12 | R6% | BZX84W-C75 | U9% |
| BZX84W-B13 | J4% | - | - | BZX84W-C13 | R7% | - | - |

^{[1] % =} placeholder for manufacturing site code

8. 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 | | - | 200 | mA |
| P _{ZSM} | non-repetitive peak reverse power dissipation | t _p = 100 μs; square wave; T _{amb} = 25 °C; prior to surge | - | 40 | W |
| P _{tot} | total power dissipation | T _{amb} = 25 °C [1 | - | 275 | mW |
| Tj | junction temperature | | - | 150 | °C |
| T _{amb} | ambient temperature | | -55 | +150 | °C |
| T _{stg} | storage temperature | | -65 | +150 | °C |

^[1] Device mounted on a FR4 PCB, single-sided copper, tin-plated and standard footprint.

9. 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 [1] |] | - | - | 455 | K/W |

^[1] Device mounted on a FR4 PCB, single-sided copper, tin-plated and standard footprint.

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10. Characteristics

Table 7. Characteristics per type; BZX84W-B2V4 to BZX84W-C75

 T_i = 25 °C unless otherwise specified.

| Symbol | Parameter | Conditions | | Max | Unit |
|----------------|--------------------|------------------------|-----|-----|------|
| V _F | forward voltage | I _F = 10 mA | [1] | 0.9 | V |
| I _R | reverse current | , | | | |
| | BZX84W-B/C2V4 | V _R = 1 V | | 50 | μA |
| | BZX84W-B/C2V7 | V _R = 1 V | | 20 | μA |
| | BZX84W-B/C3V0 | V _R = 1 V | | 10 | μA |
| | BZX84W-B/C3V3 | V _R = 1 V | | 5 | μA |
| | BZX84W-B/C3V6 | V _R = 1 V | | 5 | μA |
| | BZX84W-B/C3V9 | V _R = 1 V | | 3 | μA |
| | BZX84W-B/C4V3 | V _R = 1 V | | 3 | μA |
| | BZX84W-B/C4V7 | V _R = 2 V | | 3 | μA |
| | BZX84W-B/C5V1 | V _R = 2 V | | 2 | μA |
| | BZX84W-B/C5V6 | V _R = 2 V | | 1 | μA |
| | BZX84W-B/C6V2 | V _R = 4 V | | 3 | μA |
| | BZX84W-B/C6V8 | V _R = 4 V | | 2 | μA |
| | BZX84W-B/C7V5 | V _R = 5 V | | 1 | μA |
| | BZX84W-B/C8V2 | V _R = 5 V | | 700 | nA |
| | BZX84W-B/C9V1 | V _R = 6 V | | 500 | nA |
| | BZX84W-B/C10 | V _R = 7 V | | 200 | nA |
| | BZX84W-B/C11 | V _R = 8 V | | 100 | nA |
| | BZX84W-B/C12 | V _R = 8 V | | 100 | nA |
| | BZX84W-B/C13 | V _R = 8 V | | 100 | nA |
| | BZX84W-B/C15 to 75 | $V_R = 0.7 V_{Znom}$ | | 50 | nA |

^[1] Pulse test: $t_p \le 300 \ \mu s; \ \delta \le 0.02$.

Table 8. Characteristics per type; BZX84W-B2V4 to BZX84W-C24

 T_i = 25 °C unless otherwise specified.

| BZX84W- Sel | | Working voltage $V_Z(V)$ $I_Z = 5 \text{ mA}$ $Tol. \pm 2\% \text{ (B)}$ $Tol. \pm 5\% \text{ (C)}$ | | Differential $r_{dif}(\Omega)$ | resistance | Temperature coefficient S _Z (mV/K) | Diode capacit. C _d (pF) [1] | Non-repetitive peak reverse current I _{ZSM} (A) |
|-------------|---|--|-------|--------------------------------|-----------------------|---|--|---|
| | | | | I _Z = 1 mA | I _Z = 5 mA | I _Z = 5 mA | | t _p = 100 μs; T _{amb} = 25 °C |
| | | Min | Max | Max | Max | Тур | Max | Max |
| 2V4 | В | 2.35 | 2.45 | 600 | 100 | -1.6 | 450 | 6 |
| | С | 2.20 | 2.60 | | | | | |
| 2V7 | В | 2.65 | 2.75 | 600 | 100 | -2.0 | 450 | 6 |
| | С | 2.50 | 2.90 | | | | | |
| 3V0 | В | 2.94 | 3.06 | 600 | 95 | -2.1 | 450 | 6 |
| | С | 2.80 | 3.20 | | | | | |
| 3V3 | В | 3.23 | 3.37 | 600 | 95 | -2.4 | 450 | 6 |
| | С | 3.10 | 3.50 | | | | | |
| 3V6 | В | 3.53 | 3.67 | 600 | 90 | -2.4 | 450 | 6 |
| | С | 3.40 | 3.80 | | | | | |
| 3V9 | В | 3.82 | 3.98 | 600 90 -2.5 | -2.5 | 450 | 6 | |
| | С | 3.70 | 4.10 | | | | | |
| 4V3 | В | 4.21 | 4.39 | 600 | 90 | -2.5 | 450 | 6 |
| | С | 4.00 | 4.60 | | | | | |
| 4V7 | В | 4.61 | 4.79 | 500 | 80 -1.4 | 300 | 6 | |
| | С | 4.40 | 5.00 | | | | | |
| 5V1 | В | 5.00 | 5.20 | 480 | 60 | -0.8 | 300 | 6 |
| | С | 4.80 | 5.40 | | | | | |
| 5V6 | В | 5.49 | 5.71 | 400 | 40 | 1.2 | 300 | 6 |
| | С | 5.20 | 6.00 | | | | | |
| 6V2 | В | 6.08 | 6.32 | 150 | 10 | 2.3 | 200 | 6 |
| | С | 5.80 | 6.60 | | | | | |
| 6V8 | В | 6.66 | 6.94 | 80 | 15 | 3.0 | 200 | 6 |
| | С | 6.40 | 7.20 | | | | | |
| 7V5 | В | 7.35 | 7.65 | 80 | 15 | 4.0 | 150 | 4 |
| | С | 7.00 | 7.90 | | | | | |
| 8V2 | В | 8.04 | 8.36 | 80 | 15 | 4.6 | 150 | 4 |
| | С | 7.70 | 8.70 | | | | | |
| 9V1 | В | 8.92 | 9.28 | 100 | 15 | 5.5 | 150 | 3 |
| | С | 8.50 | 9.60 | 7 | | | | |
| 10 | В | 9.80 | 10.20 | 150 | 20 | 6.4 | 90 | 3 |
| | С | 9.40 | 10.60 | | | | | |
| 11 | В | 10.80 | 11.20 | 150 | 20 | 7.4 | 85 | 2.5 |
| | С | 10.40 | 11.60 | | | | | |
| 12 | В | 11.80 | 12.20 | 150 | 25 | 8.4 | 85 | 2.5 |
| | С | 11.40 | 12.70 | | | | | |

| BZX84W- | Sel | Workin voltage V _Z (V) | | Differential $r_{dif}(\Omega)$ | resistance | Temperature coefficient S _Z (mV/K) | Diode capacit. C _d (pF) [1] | Non-repetitive peak reverse current I _{ZSM} (A) | |
|---------|-----|---|---|--------------------------------|-----------------------|---|--|---|--|
| | | Tol. ± 2 | I _Z = 5 mA Tol. ± 2% (B) Tol. ± 5% (C) | | I _Z = 1 mA | | | t _p = 100 μs; T _{amb} = 25 °C | |
| | | Min | Max | Max | Max | Тур | Max | Max | |
| 13 | В | 12.70 | 13.30 | 170 | 30 | 9.4 | 80 | 2.5 | |
| | С | 12.40 | 14.10 | | | | | | |
| 15 | В | 14.70 | 15.30 | 200 30 1 | 30 | 11.4 | 75 | 2.0 | |
| | С | 13.80 | 15.60 | | | | | | |
| 16 | В | 15.70 | 16.30 | 200 | 40 | 40 12.4 | 75 | 1.5 | |
| | С | 15.30 | 17.10 | | | | | | |
| 18 | В | 17.60 | 18.40 | 225 | 45 | 14.4 | 70 | 1.5 | |
| | С | 16.80 | 19.10 | | | | | | |
| 20 | В | 19.60 | 20.40 | 225 | 55 | 16.4 | 60 | 1.5 | |
| | С | 18.80 | 21.20 | | | | | | |
| 22 | В | 21.60 | 22.40 | 250 | 55 | 18.4 | 60 | 1.25 | |
| | С | 20.80 | 23.30 | | | | | | |
| 24 | В | 23.50 | 24.50 | 250 | 70 | 20.4 | 55 | 1.25 | |
| | С | 22.80 | 25.60 | | | | | | |

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

Table 9. Characteristics per type; BZX84W-B27 to BZX84W-C75

 T_i = 25 °C unless otherwise specified.

| BZX84W- | Sel | Sel Working voltage V _Z (V) | | Differential r $r_{dif}(\Omega)$ | $r_{dif}(\Omega)$ | | Diode capacitance C _d (pF) [1] | Non-repetitive peak reverse current | |
|---------|-----|--|-------|----------------------------------|---|------|---|---|--|
| | | I _Z = 2 m Tol. ± 2 ^o Tol. ± 5 ^o | % (B) | I _Z = 0.5 mA | $I_Z = 0.5 \text{ mA}$ $I_Z = 2 \text{ mA}$ | | | I _{ZSM} (A) at t _p = 100 μs; T _{amb} = 25 °C | |
| | | Min | Max | Max | Max | Тур | Max | Max | |
| 27 | В | 26.50 | 27.50 | 300 | 80 | 23.4 | 50 | 1.0 | |
| | С | 25.10 | 28.90 | | | | | | |
| 30 | В | 29.40 | 30.60 | 300 | 80 | 26.6 | 50 | 1.0 | |
| | С | 28.50 | 32.00 | | | | | | |
| 33 | В | 32.30 | 33.70 | 325 | 80 | 29.7 | 45 | 0.9 | |
| | С | 31.00 | 35.00 | | | | | | |
| 36 | В | 35.30 | 36.70 | | 90 | 33.0 | 45 | 0.8 | |
| | С | 34.00 | 38.00 | | | | | | |
| 39 | В | 38.20 | 39.80 | 350 | 130 | 36.4 | 45 | 0.7 | |
| | С | 37.00 | 41.00 | | | | | | |
| 43 | В | 42.10 | 43.90 | 375 | 150 | 41.2 | 40 | 0.6 | |
| | С | 40.00 | 46.00 | | | | | | |
| 47 | В | 46.10 | 47.90 | 375 | 170 | 46.1 | 40 | 0.5 | |
| | С | 44.00 | 50.00 | | | | | | |
| 51 | В | 50.00 | 52.00 | 400 | 180 | 51.0 | 40 | 0.4 | |
| | С | 48.00 | 54.00 | | | | | | |
| 56 | В | 54.90 | 57.10 | 425 | 200 | 57.0 | 40 | 0.3 | |
| | С | 52.00 | 60.00 | | | | | | |
| 62 | В | 60.80 | 63.20 | 450 | 215 | 64.4 | 35 | 0.3 | |
| | С | 58.00 | 66.00 | | | | | | |
| 68 | В | 66.60 | 69.40 | 475 | 240 | 71.7 | 35 | 0.25 | |
| | С | 64.00 | 72.00 | | | | | | |
| 75 | В | 73.50 | 76.50 | 500 | 255 | 80.2 | 35 | 0.2 | |
| | С | 70.00 | 79.00 | | | | | | |

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

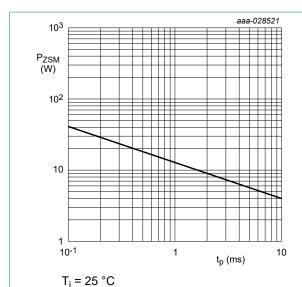


Fig. 1. Non-repetitive peak reverse power dissipation as a function of pulse duration, maximum values

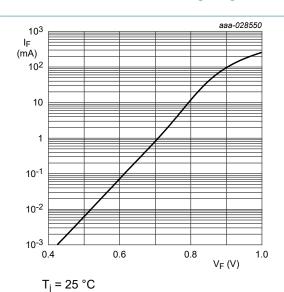


Fig. 2. Forward current as a function of forward voltage; typical values (BZX84W-B/C2V4)

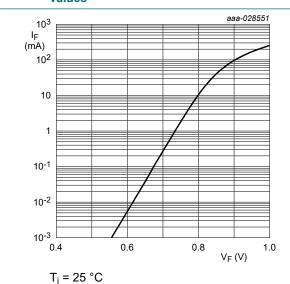


Fig. 3. Forward current as a function of forward voltage; typical values (BZX84W-B/C6V8)

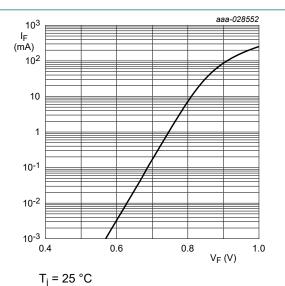


Fig. 4. Forward current as a function of forward voltage; typical values (BZX84W-B/C7V5)

Nexperia BZX84W series

Voltage regulator diodes

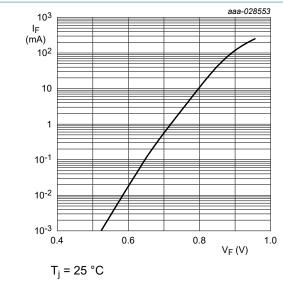
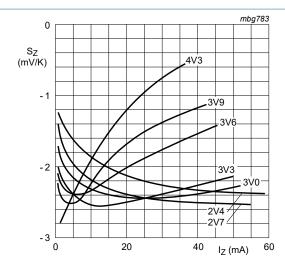
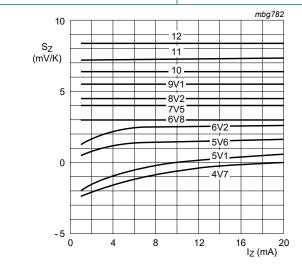


Fig. 5. Forward current as a function of forward voltage; typical values (BZX84W-B/C75)



 T_i = 25 °C to 150 °C

Fig. 6. Temperature coefficient as a function of working current; typical values (BZX84W-B/C2V4 to B/C4V3)



 T_i = 25 °C to 150 °C

Fig. 7. Temperature coefficient as a function of working current; typical values (BZX84W-B/C4V7 to B/C12)

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11. Package outline

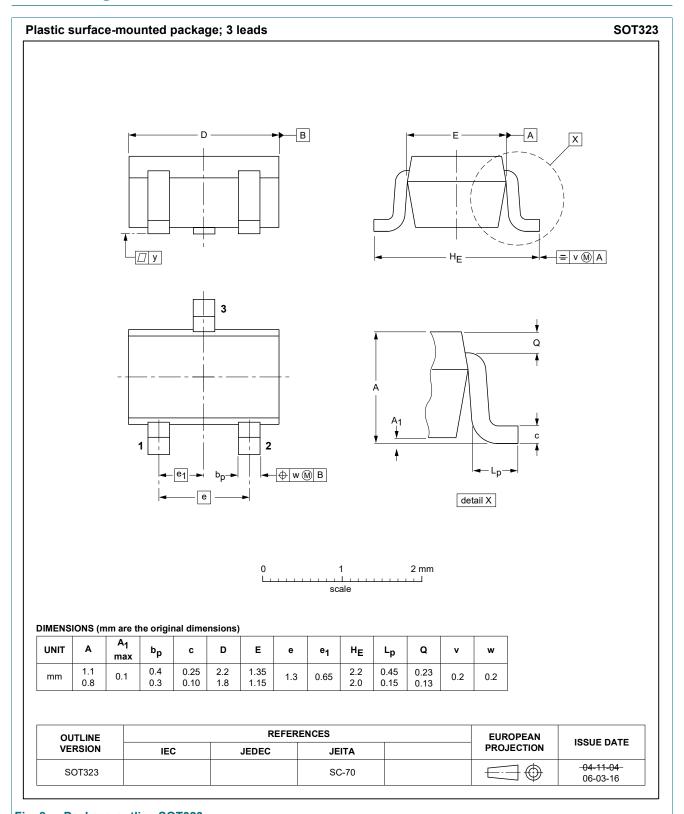
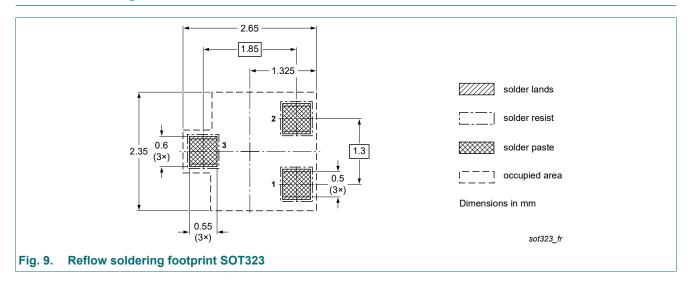
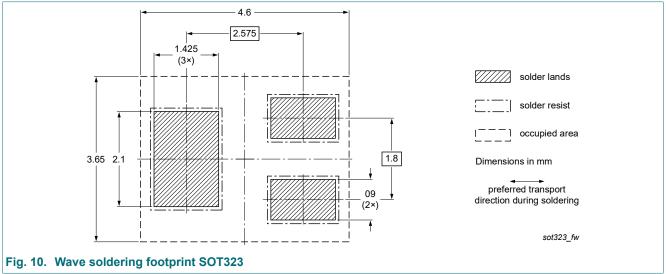


Fig. 8. Package outline SOT323

12. Soldering





13. Revision history

Table 10. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes | | | |
|----------------|---|--------------------|---------------|----------------|--|--|--|
| BZX84W_SER v.2 | 20230101 | Product data sheet | - | BZX84W_SER v.1 | | | |
| Modifications: | Product changed to non-automotive qualification. Please refer to nexperia.com for automotive (-Q) product alternative(s). | | | | | | |
| BZX84W_SER v.1 | 20180529 | Product data sheet | - | - | | | |

14. Legal information

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. |

- Please consult the most recently issued document before initiating or completing a design.
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