

Low-current voltage regulator diodes Rev. 2 — 18 July 2024

1. General description

General-purpose Zener diodes in an SOD123F small and flat lead Surface-Mounted Device (SMD) plastic package.

2. Features and benefits

- Total power dissipation: ≤ 830 mW
- Two tolerance series: ±2 % and approximately ±5 %
- Working voltage range: nominal 1.8 V to 51 V (E24 range)
- Specified at a low test current (50 µA), ideal for low bias and portable battery-powered applications
- Small plastic package suitable for surface-mounted design
- BZT5250H-B11-Q to -C51-Q: Intentional minor rise of leakage current for optimized fast switching and noise reduction [<u>AN90031</u>]
- Qualified according to AEC-Q101 and recommended for use in automotive applications

3. Applications

Low-current general regulation functions

4. Quick reference data

Table 1. Quick reference data

| Symbol | Parameter | Conditions | | Min | Тур | Мах | Unit |
|------------------|-------------------------|--------------------------|-----|-----|-----|-----|------|
| V _F | forward voltage | I _F = 10 mA | [1] | - | - | 0.9 | V |
| P _{tot} | total power dissipation | T _{amb} ≤ 25 °C | [2] | - | - | 375 | mW |
| | | | [3] | - | - | 830 | mW |

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

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



5. Pinning information

| Table 2. Pinni | able 2. Pinning | | | | | | | |
|----------------|-----------------|-------------|-----|--------------------|----------------|--|--|--|
| Pin | Symbol | Description | | Simplified outline | Graphic symbol | | | |
| 1 | К | cathode | [1] | | | | | |
| 2 | A | anode | | | | | | |
| | | | | | 006aaa152 | | | |

[1] The marking bar indicates the cathode.

6. Ordering information

Table 3. Ordering information

| Type number | Package | | | | | | |
|-------------------|---------|---|---------|--|--|--|--|
| | Name | Description | Version | | | | |
| BZT5250H-Q series | | plastic, surface-mounted package; 2 leads; 2.6 mm x 1.6 mm x 1.1 mm body | SOD123F | | | | |

7. Marking

Table 4. Marking Codes

| Type number | Marking code | Type number | Marking code | Type number | Marking code | Type number | Marking code |
|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|----------------|-----------------|
| BZT5250H-B1V8-Q | U9 | BZT5250H-B10-Q | W9 | BZT5250H-C1V8-Q | X3 | BZT5250H-C10-Q | XM |
| BZT5250H-B2V0-Q | V1 | BZT5250H-B11-Q | WA | BZT5250H-C2V0-Q | X4 | BZT5250H-C11-Q | XN |
| BZT5250H-B2V2-Q | V2 | BZT5250H-B12-Q | WB | BZT5250H-C2V2-Q | X5 | BZT5250H-C12-Q | XP |
| BZT5250H-B2V4-Q | V3 | BZT5250H-B13-Q | WC | BZT5250H-C2V4-Q | X6 | BZT5250H-C13-Q | XQ |
| BZT5250H-B2V7-Q | V4 | BZT5250H-B15-Q | WD | BZT5250H-C2V7-Q | X7 | BZT5250H-C15-Q | XR |
| BZT5250H-B3V0-Q | V5 | BZT5250H-B16-Q | WF | BZT5250H-C3V0-Q | X8 | BZT5250H-C16-Q | XS |
| BZT5250H-B3V3-Q | V6 | BZT5250H-B18-Q | WH | BZT5250H-C3V3-Q | X9 | BZT5250H-C18-Q | ХТ |
| BZT5250H-B3V6-Q | V7 | BZT5250H-B20-Q | WJ | BZT5250H-C3V6-Q | ХА | BZT5250H-C20-Q | XU |
| BZT5250H-B3V9-Q | V8 | BZT5250H-B22-Q | WL | BZT5250H-C3V9-Q | ХВ | BZT5250H-C22-Q | XV |
| BZT5250H-B4V3-Q | V9 | BZT5250H-B24-Q | WN | BZT5250H-C4V3-Q | XC | BZT5250H-C24-Q | Y1 |
| BZT5250H-B4V7-Q | W1 | BZT5250H-B27-Q | WQ | BZT5250H-C4V7-Q | XD | BZT5250H-C27-Q | Y5 |
| BZT5250H-B5V1-Q | W2 | BZT5250H-B30-Q | WS | BZT5250H-C5V1-Q | XE | BZT5250H-C30-Q | Y6 |
| BZT5250H-B5V6-Q | W3 | BZT5250H-B33-Q | WU | BZT5250H-C5V6-Q | XF | BZT5250H-C33-Q | Y7 |
| BZT5250H-B6V2-Q | W4 | BZT5250H-B36-Q | WV | BZT5250H-C6V2-Q | XG | BZT5250H-C36-Q | Y8 |
| BZT5250H-B6V8-Q | W5 | BZT5250H-B39-Q | 23 | BZT5250H-C6V8-Q | ХН | BZT5250H-C39-Q | Y9 |
| BZT5250H-B7V5-Q | W6 | BZT5250H-B43-Q | WX | BZT5250H-C7V5-Q | XJ | BZT5250H-C43-Q | Z2 |
| BZT5250H-B8V2-Q | W7 | BZT5250H-B47-Q | WY | BZT5250H-C8V2-Q | ХК | BZT5250H-C47-Q | ZQ |
| BZT5250H-B9V1-Q | W8 | BZT5250H-B51-Q | X2 | BZT5250H-C9V1-Q | XL | BZT5250H-C51-Q | ZX |

8. Limiting values

Table 5. Limiting values

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

| Symbol | Parameter | Conditions | Min | Мах | Unit |
|------------------|--|---|-------|------|------|
| I _F | forward current | | - | 200 | mA |
| P _{ZSM} | non-repetitive peak reverse power dissipation | t _p = 100 μs; square wave; T _j = 25 °C; prior to surge | - | 40 | W |
| P _{tot} | total power dissipation | T _{amb} ≤ 25 °C | [1] - | 375 | mW |
| | | | [2] - | 830 | mW |
| Tj | junction temperature | | - | 150 | °C |
| T _{amb} | ambient temperature | | -55 | +150 | °C |
| T _{stg} | storage temperature | | -65 | +150 | °C |

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

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

9. Thermal characteristics

Table 6. Thermal characteristics

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|--|--|-----------------|-----|-----|-----|------|
| R _{th(j-a)} thermal resistance from | | in free air [1] | - | - | 330 | K/W |
| | junction to ambient | [2] | | - | 150 | K/W |
| R _{th(j-sp)} | thermal resistance from junction to solder point | [3] | - | - | 70 | K/W |

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

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

[3] Soldering point of cathode tab.

10. Characteristics

Table 7. Electrical characteristics

T_i = 25 °C unless otherwise specified.

| Symbol | Parameter | Conditions | | Max | Unit |
|----------------|-----------------|------------------------|-----|-----|------|
| V _F | forward voltage | I _F = 10 mA | [1] | 0.9 | V |

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

Low-current voltage regulator diodes

Table 8. Electrical characteristics per type: BZT5250H-B1V8-Q to BZT5250H-C36-Q

$T_i = 25$ °C unless otherwise specified.

| BZT5250H- xxx-Q | Sel. | | ng voltage _Z (V) | res | erential istance iff (Ω) | | Reverse current I _R (μΑ) | | perature efficient (mV/K) | Diode capacitance C _d (pF) f = 1 MHz V _R = 0 V | |
|--------------------|------|---------------------|--------------------------------|----------------------|--------------------------------|-----|--|-------------------|---------------------------------|--|--|
| | | I _Z = 50 | μA | I <u>Z</u> = 1 mA | I <u>Z</u> = 5 mA | | | l <u>z</u> = 5 mA | | | |
| | | Min | Мах | Max | Мах | Max | V _R (V) | Min | Max | Max | |
| 1V8 | В | 1.76 | 1.84 | 600 | 100 | 7.5 | 1.0 | -3.5 | 0 | 220 | |
| | С | 1.71 | 1.89 | - | | | | | | | |
| 2V0 | В | 1.96 | 2.04 | 600 | 100 | 7 | 1.0 | -3.5 | 0 | 220 | |
| | С | 1.88 | 2.12 | - | | | | | | | |
| 2V2 | В | 2.15 | 2.25 | 600 | 100 | 4 | 1.0 | -3.5 | 0 | 210 | |
| | С | 2.09 | 2.31 | - | | | | | | | |
| 2V4 | В | 2.35 | 2.45 | 600 | 100 | 2 | 1.0 | -3.5 | 0 | 200 | |
| | С | 2.28 | 2.52 | 1 | | | | | | | |
| 2V7 | В | 2.65 | 2.75 | 600 | 100 | 1 | 1.0 | -3.5 | 0 | 190 | |
| | С | 2.565 | 2.835 | 1 | | | | | | | |
| 3V0 | В | 2.94 | 3.06 | 600 | 100 | 0.8 | 1.0 | -3.5 | 0.2 | 170 | |
| | С | 2.85 | 3.15 | 1 | | | | | | | |
| 3V3 | В | 3.23 | 3.37 | 600 | 100 | 7.5 | 1.5 | -3.5 | 1.2 | 160 | |
| | С | 3.13 | 3.47 | - | | | | | | | |
| 3V6 | В | 3.53 | 3.67 | 600 | 95 | 7.5 | 2.0 | -3.5 | 1.2 | 160 | |
| | С | 3.42 | 3.78 | | | | | | | | |
| 3V9 | В | 3.82 | 3.98 | 600 | 95 | 5.0 | 2.0 | -2.7 | 2.5 | 150 | |
| | С | 3.70 | 4.10 | - | | | | | | | |
| 4V3 | В | 4.21 | 4.39 | 600 | 95 | 4.0 | 2.0 | -2.7 | 2.5 | 150 | |
| | С | 4.09 | 4.52 | - | | | | | | | |
| 4V7 | В | 4.61 | 4.79 | 600 | 600 80 | 5.0 | 3.0 | -2.7 | 2.5 | 140 | |
| | С | 4.47 | 4.94 | | | | | | | | |
| 5V1 | В | 5.00 | 5.20 | 500 | 60 | 5.0 | 3.0 | -2.0 | 3.7 | 130 | |
| | С | 4.85 | 5.36 | 1 | | | | | | | |
| 5V6 | В | 5.49 | 5.71 | 400 | 40 | 2.0 | 4.0 | -2.0 | 3.7 | 120 | |
| | С | 5.32 | 5.88 | 1 | | | | | | | |
| 6V2 | В | 6.08 | 6.32 | 160 | 10 | 1.0 | 5.0 | 0.4 | 4.5 | 110 | |
| | С | 5.89 | 6.51 | 1 | | | | | | | |
| 6V8 | В | 6.66 | 6.94 | 80 | 15 | 0.1 | 5.1 | 1.2 | 4.5 | 100 | |
| | С | 6.46 | 7.14 | 1 | | | | | | | |
| 7V5 | В | 7.35 | 7.65 | 80 | 15 | 0.1 | 5.7 | 2.5 | 5.3 | 150 | |
| | С | 7.13 | 7.88 | 1 | | | | | | | |
| 8V2 | В | 8.04 | 8.36 | 80 | 15 | 0.1 | 6.2 | 3.2 | 6.2 | 150 | |
| | С | 7.79 | 8.61 | 1 | | | | | | | |
| 9V1 | В | 8.92 | 9.28 | 100 | 15 | 0.1 | 6.9 | 3.8 | 7.0 | 150 | |
| | С | 8.65 | 9.56 | 1 | | | | | | | |
| 10 | В | 9.80 | 10.20 | 150 | 20 | 0.1 | 7.6 | 4.5 | 8.0 | 90 | |
| | С | 9.50 | 10.50 | 1 | | | | | | | |

Low-current voltage regulator diodes

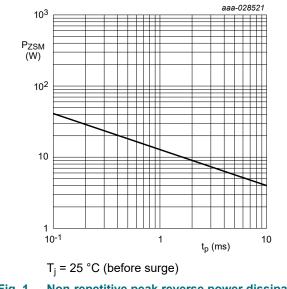
| BZT5250H- xxx-Q | Sel. | Working voltage V _Z (V) | | resi | erential stance iff (Ω) | Reverse current I _R (μΑ) | | coe | perature efficient (mV/K) | Diode capacitance C _d (pF) | |
|--------------------|------|---------------------------------------|-------|----------------------|-------------------------------|--|--------------------|-------------------|---------------------------------|---|--|
| | | I _Z = 50 μA | | I <u>Z</u> = 1 mA | I <u>Z</u> = 5 mA | | | l <u>z</u> = 5 mA | | f = 1 MHz V _R = 0 V | |
| | | Min | Max | Max | Max | Max | V _R (V) | Min | Max | Max | |
| 11 | В | 10.80 | 11.20 | 150 | 20 | 0.05 | 8.4 | 5.4 | 9.0 | 85 | |
| | С | 10.45 | 11.55 | 1 | | | | | | | |
| 12 | В | 11.80 | 12.20 | 150 | 25 | 0.05 | 9.1 | 6.0 | 10 | 85 | |
| | С | 11.40 | 12.60 | 1 | | | | | | | |
| 13 | В | 12.70 | 13.30 | 170 | 30 | 0.05 | 9.8 | 7.0 | 11 | 80 | |
| | С | 12.35 | 13.65 | | | | | | | | |
| 15 | В | 14.70 | 15.30 | 200 | 30 | 0.05 | 11.4 | 9.2 | 13 | 75 | |
| | С | 14.25 | 15.75 | | | | | | | | |
| 16 | В | 15.70 | 16.30 | 200 | 40 | 0.05 | 12.1 | 10.4 | 14 | 75 | |
| | С | 15.20 | 16.80 | | | | | | | | |
| 18 | В | 17.60 | 18.40 | 225 45 | 45 | 0.05 | 13.6 | 12.4 | 16 | 70 | |
| | С | 17.10 | 18.90 | | | | | | | | |
| 20 | В | 19.60 | 20.40 | 225 | 55 | 0.05 | 15.2 | 14.4 | 18 | 60 | |
| | С | 19.00 | 21.00 | | | | | | | | |
| 22 | В | 21.60 | 22.40 | 250 | 55 0.05 | 16.7 | 16.4 2 | 20 | 60 | | |
| | С | 20.90 | 23.10 | | | | | | | | |
| 24 | В | 23.50 | 24.50 | 250 | 70 | 0.05 | 18.2 | 18.4 | 22 | 55 | |
| | С | 22.80 | 25.20 | 1 | | | | | | | |
| 27 | В | 26.50 | 27.50 | 300 | 80 | 0.05 | 20.4 | 21.4 | 25.3 | 50 | |
| | С | 25.65 | 28.35 | | | | | | | | |
| 30 | В | 29.40 | 30.60 | 300 | 80 | 0.05 | 22.8 | 24.4 | 29.4 | 50 | |
| | С | 28.50 | 31.50 | | | | | | | | |
| 33 | В | 32.30 | 33.70 | 325 | 80 | 0.05 | 25.0 | 27.4 | 33.4 | 45 | |
| | С | 31.35 | 34.65 | | | | | | | | |
| 36 | В | 35.30 | 36.70 | 350 | 90 | 0.05 | 27.3 | 30.4 | 37.4 | 45 | |
| | С | 34.20 | 37.80 |] | | | | | | | |

Low-current voltage regulator diodes

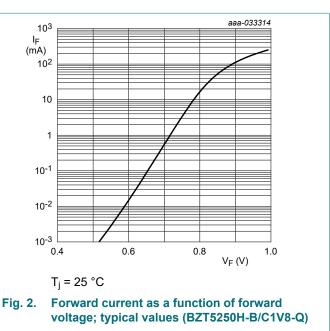
Table 9. Electrical characteristics per type: BZT5250H-B39-Q to BZT5250H-C51-Q

 T_i = 25 °C unless otherwise specified.

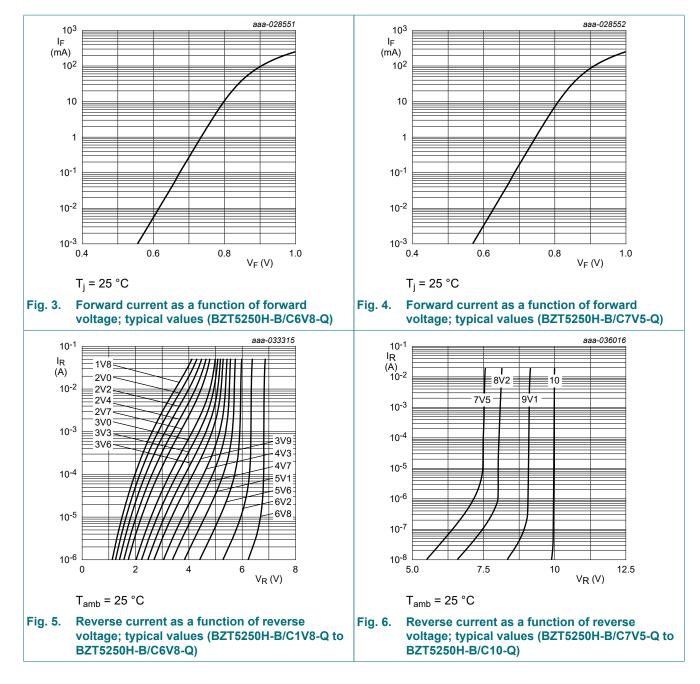
| BZT5250H- xxx-Q | Sel. | | ng voltage _Z (V) | resis | rential stance f (Ω) | Reverse current I _R (μΑ) | | Temperature coefficient S _Z (mV/K) | | Diode capacitance C _d (pF) | | | |
|--------------------|------|-----------------|--------------------------------|---------|----------------------------|--|--------------------|---|-----------------------------------|---|------|------|----|
| | | I <u>Z</u> = 50 | I _Z = 50 μA | | Iz = 2 mA | | I <u>Z</u> = 2 mA | | f = 1 MHz V _R = 0 V | | | | |
| | | Min | Max | Max | Max | Max | V _R (V) | Min | Max | Max | | | |
| 39 | В | 38.20 | 39.80 | 350 13 | 350 130 | 350 | 9.80 350 | 130 | 0.05 | 29.6 | 33.4 | 41.2 | 45 |
| | С | 37.05 | 40.95 | | | | | | | | | | |
| 43 | В | 42.10 | 43.90 | 375 150 | 150 0.05 | 0.05 32.6 | 37.6 46.6 | 46.6 | 40 | | | | |
| | С | 40.85 | 45.15 | | | | | | | | | | |
| 47 | В | 46.10 | 47.90 | 375 | 170 | 0.05 | 32.9 | 42.0 | 51.8 | 40 | | | |
| | С | 44.00 | 50.00 | | | | | | | | | | |
| 51 | В | 50.00 | 52.00 | 400 180 | 0.05 35.7 | 35.7 | 46.6 | 57.2 | 40 | | | | |
| | С | 48.00 | 54.00 | | | | | | | | | | |



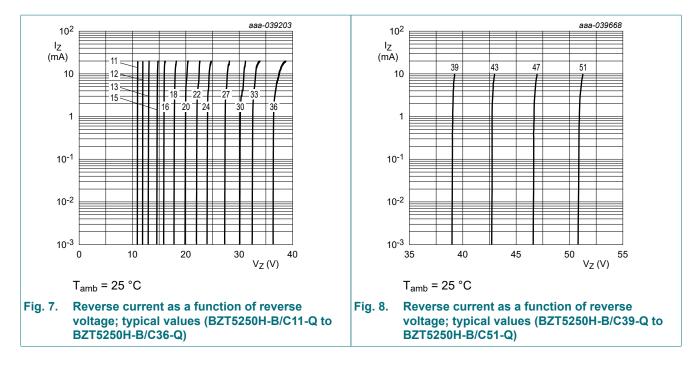




Low-current voltage regulator diodes



Low-current voltage regulator diodes

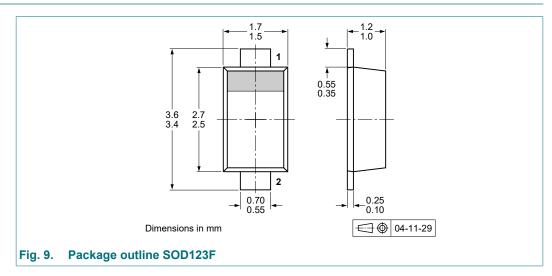


11. Test information

Quality information

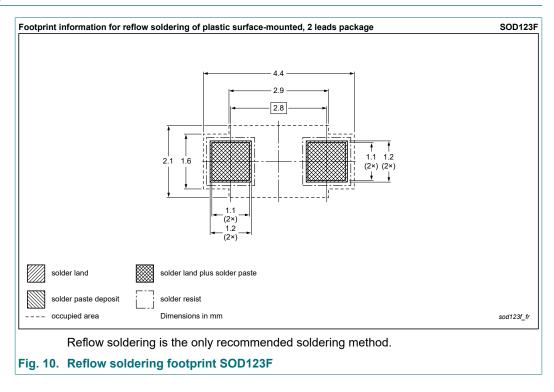
This product has been qualified in accordance with the Automotive Electronics Council (AEC) standard Q101 - *Stress test qualification for discrete semiconductors*, and is suitable for use in automotive applications.

12. Package outline



Low-current voltage regulator diodes

13. Soldering



14. Revision history

| Table 10. Revision history | | | | | | | | |
|----------------------------|--------------|--|---------------|--------------------|--|--|--|--|
| Document ID | Release date | Data sheet status | Change notice | Supersedes | | | | |
| BZT5250H-Q_SER v.2 | 20240718 | Product data sheet | - | BZT5250H-Q_SER v.1 | | | | |
| Modifications: | | Product status changedProducts selections 11 V up to 51 V added | | | | | | |
| BZT5250H-Q_SER v.1 | 20240318 | Objective data sheet | - | - | | | | |

BZT5250H-Q_SER

10 / 12

15. 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. |
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Contents

| 1. | General description | 1 |
|-----|-------------------------|---|
| 2. | Features and benefits | 1 |
| 3. | Applications | 1 |
| 4. | Quick reference data | 1 |
| 5. | Pinning information | 2 |
| 6. | Ordering information | 2 |
| 7. | Marking | 2 |
| 8. | Limiting values | 3 |
| | Thermal characteristics | |
| 10. | Characteristics | 3 |
| 11. | Test information | 8 |
| 12. | Package outline | 8 |
| | Soldering | |
| | Revision history1 | |
| | Legal information1 | |
| | - | |

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 BZT5250H-B13-QX
 BZT5250H-B24-QX
 BZT5250H-C3V6-QX
 BZT5250H-C5V6-QX
 BZT5250H-B6V2-QX
 BZT5250H-C27-QX

 BZT5250H-C2V7-QX
 BZT5250H-C3V6-QX
 BZT5250H-C6V2-QX
 BZT5250H-B33-QX
 BZT5250H-B43-QX

 BZT5250H-C18-QX
 BZT5250H-C2V2-QX
 BZT5250H-C6V2-QX
 BZT5250H-B33-QX
 BZT5250H-C12-QX
 BZT5250H-C3V2-QX

 BZT5250H-C18-QX
 BZT5250H-C2V2-QX
 BZT5250H-C3CV2-QX
 BZT5250H-B16-QX
 BZT5250H-B13-QX
 BZT5250H-C12-QX
 BZT5250H-C3V2-QX
 BZT5250H-C