Product data sheet

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
- Three tolerance series: ±1 %, ±2 % and approximately ±5 %
- Wide working voltage range: nominal 2.4 V to 75 V (E24 range)
- Small plastic package suitable for surface-mounted design
- Qualified according to AEC-Q101 and recommended for use in automotive applications

3. Applications

General regulation functions

4. Quick reference data

Table 1. Quick reference data

| Symbol | Parameter | Conditions | | Min | Тур | Max | 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. Pinning

| Pin | Symbol | Description | | Simplified outline | Graphic symbol |
|-----|--------|-------------|-----|--------------------|----------------|
| 1 | K | cathode | [1] | 1 2 | и П а |
| 2 | Α | anode | | | ^ <u> </u> |
| | | | | | 006aaa152 |

^[1] The marking bar indicates the cathode.

6. Ordering information

Table 3. Ordering information

| Type number | Package | | |
|--------------------|---------|--|---------|
| | Name | Description | Version |
| BZT52H-Q series[1] | - | plastic surface-mounted package; 2 leads | SOD123F |

^[1] The series consists of 111 types with 37 breakdown voltages with nominal working voltages from 2.4 V to 75 V and ±1 %, ±2 % and ±5 % tolerances.

7. Marking

Table 4. Marking codes

| Type number | Marking code | Type number | Marking code | Type number | Marking code |
|---------------|--------------|---------------|--------------|---------------|--------------|
| BZT52H-A2V4-Q | FT | BZT52H-B2V4-Q | DC | BZT52H-C2V4-Q | В3 |
| BZT52H-A2V7-Q | FU | BZT52H-B2V7-Q | DD | BZT52H-C2V7-Q | B4 |
| BZT52H-A3V0-Q | FV | BZT52H-B3V0-Q | DE | BZT52H-C3V0-Q | B5 |
| BZT52H-A3V3-Q | FW | BZT52H-B3V3-Q | DF | BZT52H-C3V3-Q | B6 |
| BZT52H-A3V6-Q | FX | BZT52H-B3V6-Q | DG | BZT52H-C3V6-Q | B7 |
| BZT52H-A3V9-Q | FY | BZT52H-B3V9-Q | DH | BZT52H-C3V9-Q | В8 |
| BZT52H-A4V3-Q | FZ | BZT52H-B4V3-Q | DJ | BZT52H-C4V3-Q | В9 |
| BZT52H-A4V7-Q | G1 | BZT52H-B4V7-Q | DK | BZT52H-C4V7-Q | ВА |
| BZT52H-A5V1-Q | G2 | BZT52H-B5V1-Q | DL | BZT52H-C5V1-Q | ВВ |
| BZT52H-A5V6-Q | G3 | BZT52H-B5V6-Q | DM | BZT52H-C5V6-Q | ВС |
| BZT52H-A6V2-Q | G4 | BZT52H-B6V2-Q | DN | BZT52H-C6V2-Q | BD |
| BZT52H-A6V8-Q | G5 | BZT52H-B6V8-Q | DP | BZT52H-C6V8-Q | BE |
| BZT52H-A7V5-Q | G6 | BZT52H-B7V5-Q | DQ | BZT52H-C7V5-Q | BF |
| BZT52H-A8V2-Q | G7 | BZT52H-B8V2-Q | DR | BZT52H-C8V2-Q | BG |
| BZT52H-A9V1-Q | G8 | BZT52H-B9V1-Q | DS | BZT52H-C9V1-Q | ВН |
| BZT52H-A10-Q | G9 | BZT52H-B10-Q | DT | BZT52H-C10-Q | BJ |
| BZT52H-A11-Q | GA | BZT52H-B11-Q | DU | BZT52H-C11-Q | BK |
| BZT52H-A12-Q | GB | BZT52H-B12-Q | DV | BZT52H-C12-Q | BL |
| BZT52H-A13-Q | GC | BZT52H-B13-Q | DW | BZT52H-C13-Q | ВМ |
| BZT52H-A15-Q | GD | BZT52H-B15-Q | DX | BZT52H-C15-Q | BN |
| BZT52H-A16-Q | GE | BZT52H-B16-Q | DY | BZT52H-C16-Q | BP |
| BZT52H-A18-Q | GF | BZT52H-B18-Q | DZ | BZT52H-C18-Q | BQ |
| BZT52H-A20-Q | GG | BZT52H-B20-Q | E1 | BZT52H-C20-Q | BR |
| BZT52H-A22-Q | GH | BZT52H-B22-Q | E2 | BZT52H-C22-Q | BS |
| BZT52H-A24-Q | GJ | BZT52H-B24-Q | E3 | BZT52H-C24-Q | ВТ |
| BZT52H-A27-Q | GK | BZT52H-B27-Q | E4 | BZT52H-C27-Q | BU |
| BZT52H-A30-Q | GL | BZT52H-B30-Q | E5 | BZT52H-C30-Q | BV |
| BZT52H-A33-Q | GM | BZT52H-B33-Q | E6 | BZT52H-C33-Q | BW |
| BZT52H-A36-Q | GN | BZT52H-B36-Q | E7 | BZT52H-C36-Q | ВХ |
| BZT52H-A39-Q | GP | BZT52H-B39-Q | E8 | BZT52H-C39-Q | BY |
| BZT52H-A43-Q | GY | BZT52H-B43-Q | E9 | BZT52H-C43-Q | BZ |
| BZT52H-A47-Q | GR | BZT52H-B47-Q | EA | BZT52H-C47-Q | C1 |
| BZT52H-A51-Q | GS | BZT52H-B51-Q | EB | BZT52H-C51-Q | C2 |
| BZT52H-A56-Q | GT | BZT52H-B56-Q | EC | BZT52H-C56-Q | C3 |
| BZT52H-A62-Q | GU | BZT52H-B62-Q | ED | BZT52H-C62-Q | C4 |
| BZT52H-A68-Q | GV | BZT52H-B68-Q | EE | BZT52H-C68-Q | C5 |
| BZT52H-A75-Q | GW | BZT52H-B75-Q | EF | BZT52H-C75-Q | C6 |

8. Limiting values

Table 5. Limiting values

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

| Symbol | Parameter | Conditions | | Min | Max | Unit |
|------------------|---|--------------------------|-----|-----|------------------------------|------|
| l _F | forward current | | | - | 250 | mA |
| I _{ZSM} | non-repetitive peak reverse current | | [1] | - | see Tables 8, 9 and 10 | |
| P _{ZSM} | non-repetitive peak reverse power dissipation | | [1] | - | 40 | W |
| P _{tot} | total power dissipation | T _{amb} ≤ 25 °C | [2] | - | 375 | mW |
| | | | [3] | - | 830 | mW |
| Tj | junction temperature | | | - | 150 | °C |
| T _{amb} | ambient temperature | | | -65 | +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 PCB, single-sided copper, tin-plated and standard footprint.
- 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 |

- Device mounted on an FR4 PCB, single-sided copper, tin-plated and standard footprint.
- Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for cathode 1 cm².
- Soldering point of cathode tab.

10. Characteristics

Table 7. Characteristics

 T_i = 25 °C unless otherwise specified.

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

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

Table 8. Characteristics per type; BZT52H-A2V4-Q to BZT52H-C24-Q

 T_i = 25 °C unless otherwise specified.

| -xxx vol V _z I _z = | | Worki voltag V _Z (V) I _Z = 5 | je | Maximum resistance $r_{dif}(\Omega)$ | differential | Rever currer I _R (µA | nt | | | Diode capacitance C _d (pF) [1] | Non-repetitive peak reverse current I _{ZSM} (A) [2] |
|--|---|---|------|--------------------------------------|-----------------------|---------------------------------------|--------------------|------|-----|---|---|
| | | Min | Max | I _Z = 1 mA | I _Z = 5 mA | Max | V _R (V) | Min | Max | Max | Max |
| 2V4-Q | Α | 2.37 | 2.43 | 400 | 85 | 50 | 1 | -3.5 | 0.0 | 450 | 6.0 |
| | В | 2.35 | 2.45 | | | | | | | | |
| | С | 2.20 | 2.60 | | | | | | | | |
| 2V7-Q | Α | 2.67 | 2.73 | 500 | 83 | 20 | 1 | -3.5 | 0.0 | 450 | 6.0 |
| | В | 2.65 | 2.75 | | | | | | | | |
| | С | 2.50 | 2.90 | | | | | | | | |
| 3V0-Q | Α | 2.97 | 3.03 | 500 | 95 | 10 | 1 | -3.5 | 0.0 | 450 | 6.0 |
| | В | 2.94 | 3.06 | | | | | | | | |
| | С | 2.80 | 3.20 | | | | | | | | |
| 3V3-Q | Α | 3.26 | 3.34 | 500 | 95 | 5 | 1 | -3.5 | 0.0 | 450 | 6.0 |
| | В | 3.23 | 3.37 | | | | | | | | |
| | С | 3.10 | 3.50 | | | | | | | | |
| 3V6-Q | Α | 3.56 | 3.64 | 500 | 95 | 5 | 1 | -3.5 | 0.0 | 450 | 6.0 |
| | В | 3.53 | 3.67 | | | | | | | | |
| | С | 3.40 | 3.80 | | | | | | | | |
| 3V9-Q | Α | 3.86 | 3.94 | 500 | 95 | 3 | 1 | -3.5 | 0.0 | 450 | 6.0 |
| | В | 3.82 | 3.98 | | | | | | | | |
| | С | 3.70 | 4.10 | | | | | | | | |
| 4V3-Q | Α | 4.25 | 4.35 | 500 | 95 | 3 | 1 | -3.5 | 0.0 | 450 | 6.0 |
| | В | 4.21 | 4.39 | | | | | | | | |
| | С | 4.00 | 4.60 | | | | | | | | |
| 4V7-Q | Α | 4.65 | 4.75 | 500 | 78 | 3 | 2 | -3.5 | 0.2 | 300 | 6.0 |
| | В | 4.61 | 4.79 | | | | | | | | |
| | С | 4.40 | 5.00 | | | | | | | | |
| 5V1-Q | Α | 5.04 | 5.16 | 480 | 60 | 2 | 2 | -2.7 | 1.2 | 300 | 6.0 |
| | В | 5.00 | 5.20 | | | | | | | | |
| | С | 4.80 | 5.40 | | | | | | | | |
| 5V6-Q | Α | 5.54 | 5.66 | 400 | 40 | 1 | 2 | -2.0 | 2.5 | 300 | 6.0 |
| | В | 5.49 | 5.71 | | | | | | | | |
| | С | 5.20 | 6.00 | | | <u>L</u> _ | Ш | | | | |
| 6V2-Q | Α | 6.13 | 6.27 | 150 | 10 | 3 | 4 | 0.4 | 3.7 | 200 | 6.0 |
| | В | 6.08 | 6.32 | | | | | | | | |
| | С | 5.80 | 6.60 | | | | | | | | |
| 6V8-Q | Α | 6.73 | 6.87 | 80 | 8 | 2 | 4 | 1.2 | 4.5 | 200 | 6.0 |
| | В | 6.66 | 6.94 | | | | | | | | |
| | С | 6.40 | 7.20 | 1 | | | | | | | |
| 7V5-Q | Α | 7.42 | 7.58 | 80 | 10 | 1 | 5 | 2.5 | 5.3 | 150 | 4.0 |
| | В | 7.35 | 7.65 | | | | | | | | |
| | С | 7.00 | 7.90 | 1 | | | | | | | |

| BZT52H Sel -xxx | | Working voltage V _Z (V) I _Z = 5 mA | | Maximum resistance r _{dif} (Ω) | differential | Rever currer I _R (µA | nt | Temp coeffi S _Z (m I _Z = 5 | V/K) | Diode capacitance C _d (pF) [1] | Non-repetitive peak reverse current I _{ZSM} (A) [2] |
|--------------------|---|--|-------|---|-----------------------|---------------------------------------|--------------------|---|------|---|---|
| | | Min | Max | I _Z = 1 mA | I _Z = 5 mA | Max | V _R (V) | Min | Max | Max | Max |
| 8V2-Q | Α | 8.11 | 8.29 | 80 | 10 | 0.7 | 5 | 3.2 | 6.2 | 150 | 4.0 |
| | В | 8.04 | 8.36 | | | | | | | | |
| | С | 7.70 | 8.70 | 1 | | | | | | | |
| 9V1-Q | Α | 9.00 | 9.20 | 100 | 10 | 0.5 | 6 | 3.8 | 7.0 | 150 | 3.0 |
| | В | 8.92 | 9.28 |] | | | | | | | |
| | С | 8.50 | 9.60 | 1 | | | | | | | |
| 10-Q | Α | 9.90 | 10.10 | 70 | 10 | 0.2 | 7 | 4.5 | 8.0 | 90 | 3.0 |
| | В | 9.80 | 10.20 | 1 | | | | | | | |
| | С | 9.40 | 10.60 | 1 | | | | | | | |
| 11-Q | Α | 10.89 | 11.11 | 70 | 10 | 0.1 | 8 | 5.4 | 9.0 | 85 | 2.5 |
| | В | 10.80 | 11.20 | 1 | | | | | | | |
| | С | 10.40 | 11.60 | 1 | | | | | | | |
| 12-Q | Α | 11.88 | 12.12 | 90 | 10 | 0.1 | 8 | 6.0 | 10.0 | 85 | 2.5 |
| | В | 11.80 | 12.20 | 1 | | | | | | | |
| | С | 11.40 | 12.70 | 1 | | | | | | | |
| 13-Q | Α | 12.87 | 13.13 | 110 | 10 | 0.1 | 8 | 7.0 | 11.0 | 80 | 2.5 |
| | В | 12.70 | 13.30 | 1 | | | | | | | |
| | С | 12.40 | 14.10 | 1 | | | | | | | |
| 15-Q | Α | 14.85 | 15.15 | 110 | 15 | 0.05 | 10.5 | 9.2 | 13.0 | 75 | 2.0 |
| | В | 14.70 | 15.30 |] | | | | | | | |
| | С | 13.80 | 15.60 | 1 | | | | | | | |
| 16-Q | Α | 15.84 | 16.16 | 170 | 20 | 0.05 | 11.2 | 10.4 | 14.0 | 75 | 1.5 |
| | В | 15.70 | 16.30 |] | | | | | | | |
| | С | 15.30 | 17.10 | 1 | | | | | | | |
| 18-Q | Α | 17.82 | 18.18 | 170 | 20 | 0.05 | 12.6 | 12.4 | 16.0 | 70 | 1.5 |
| | В | 17.60 | 18.40 | | | | | | | | |
| | С | 16.80 | 19.10 | | | | | | | | |
| 20-Q | Α | 19.80 | 20.20 | 220 | 20 | 0.05 | 14 | 14.4 | 18.0 | 60 | 1.5 |
| | В | 19.60 | 20.40 | | | | | | | | |
| | С | 18.80 | 21.20 | | | | | | | | |
| 22-Q | Α | 21.78 | 22.22 | 220 | 25 | 0.05 | 15.4 | 16.4 | 20.0 | 60 | 1.25 |
| | В | 21.60 | 22.40 |] | | | | | | | |
| | С | 20.80 | 23.30 |] | | | | | | | |
| 24-Q | Α | 23.76 | 24.24 | 220 | 30 | 0.05 | 16.8 | 18.4 | 22.0 | 55 | 1.25 |
| | В | 23.50 | 24.50 | 1 | | | | 10. 7 | | | |
| | С | 22.80 | 25.60 | 1 | | | | | | | |

^[1] f = 1 MHz; $V_R = 0 V$ [2] $t_p = 100 \ \mu s; T_{amb} = 25 \ ^{\circ}C$

Table 9. Characteristics per type; BZT52H-A27-Q to BZT52H-C51-Q

 T_i = 25 °C unless otherwise specified.

| BZT52H -xxx | Sel | Working voltag V _Z (V) I _Z = 2 I | e | $\begin{array}{l} \text{Maximum differential} \\ \text{resistance} \\ \text{r}_{\text{dif}}\left(\Omega\right) \end{array}$ | | curren | Reverse current I _R (μA) | | erature cient V/K) mA | Diode capacitance C _d (pF) [1] | Non-repetitive peak reverse current I _{ZSM} (A) [2] |
|----------------|-----|--|-------|---|-----------------------|--------|---|------|--------------------------------|---|---|
| | | Min | Max | I _Z = 1 mA | I _Z = 5 mA | Max | V _R (V) | Min | Max | Max | Max |
| 27-Q | Α | 26.73 | 27.27 | 250 | 40 | 0.05 | 18.9 | 21.4 | 25.3 | 50 | 1.0 |
| | В | 26.50 | 27.50 | | | | | | | | |
| | С | 25.10 | 28.90 | | | | | | | | |
| 30-Q | А | 29.70 | 30.30 | 250 | 40 | 0.05 | 21 | 24.4 | 29.4 | 50 | 1.0 |
| | В | 29.40 | 30.60 | | | | | | | | |
| | С | 28.00 | 32.00 | | | | | | | | |
| 33-Q | Α | 32.67 | 33.33 | 250 | 40 | 0.05 | 23.1 | 27.4 | 33.4 | 45 | 0.9 |
| | В | 32.30 | 33.70 | | | | | | | | |
| | С | 31.00 | 35.00 | | | | | | | | |
| 36-Q | Α | 35.64 | 36.36 | 250 | 60 | 0.05 | 25.2 | 30.4 | 37.4 | 45 | 0.8 |
| | В | 35.30 | 36.70 | | | | | | | | |
| | С | 34.00 | 38.00 | | | | | | | | |
| 39-Q | Α | 38.61 | 39.39 | 300 | 75 | 0.05 | 27.3 | 33.4 | 41.2 | 45 | 0.7 |
| | В | 38.20 | 39.80 | | | | | | | | |
| | С | 37.00 | 41.00 | | | | | | | | |
| 43-Q | Α | 42.57 | 43.43 | 325 | 80 | 0.05 | 30.1 | 37.6 | 46.6 | 40 | 0.6 |
| | В | 42.10 | 43.90 | | | | | | | | |
| | С | 40.00 | 46.00 | | | | | | | | |
| 47-Q | Α | 46.53 | 47.47 | 325 | 90 | 0.05 | 32.9 | 42.0 | 51.8 | 40 | 0.5 |
| | В | 46.10 | 47.90 | 1 | | | | | | | |
| | С | 44.00 | 50.00 | | | | | | | | |
| 51-Q | Α | 50.49 | 51.51 | 350 | 100 | 0.05 | 35.7 | 46.6 | 57.2 | 40 | 0.4 |
| | В | 50.00 | 52.00 | 1 | | | | | | | |
| | С | 48.00 | 54.00 | | | | | | | | |

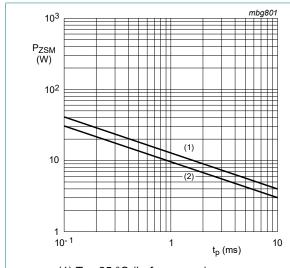
^[1] $f = 1 \text{ MHz}; V_R = 0 \text{ V}$ [2] $t_p = 100 \text{ } \mu\text{s}; T_{amb} = 25 \text{ }^{\circ}\text{C}.$

Table 10. Characteristics per type; BZT52H-A56-Q to BZT52H-C75-Q

 T_i = 25 °C unless otherwise specified.

| BZT52H Sel -xxx | | Sel Working voltage V _Z (V) I _Z = 2 m | | Maximum (resistance r _{dif} (Ω) | | | I _R (μΑ) | | erature cient V/K) mA | Diode capacitance C _d (pF) [1] | Non-repetitive peak reverse current I _{ZSM} (A) [2] |
|--------------------|---|--|-------|---|-----------------------|------|---------------------|------|--------------------------------|---|---|
| | | Min | Max | I _Z = 0.5 mA | I _Z = 2 mA | Max | V _R (V) | Min | Max | Max | Max |
| 56-Q | Α | 55.44 | 56.56 | 375 | 120 | 0.05 | 39.2 | 52.2 | 63.8 | 40 | 0.3 |
| | В | 54.90 | 57.10 | | | | | | | | |
| | С | 52.00 | 60.00 | - | | | | | | | |
| 62-Q | Α | 61.38 | 62.62 | 400 | 140 | 0.05 | 43.4 | 58.8 | 71.6 | 35 | 0.3 |
| | В | 60.80 | 63.20 | - | | | | | | | |
| | С | 58.00 | 66.00 | | | | | | | | |
| 68-Q | Α | 67.32 | 68.68 | 400 | 160 | 0.05 | 47.6 | 65.6 | 79.8 | 35 | 0.25 |
| | В | 66.60 | 69.40 | 1 | | | | | | | |
| | С | 64.00 | 72.00 | 1 | | | | | | | |
| 75-Q | Α | 74.25 | 75.75 | 400 | 175 | 0.05 | 52.5 | 73.4 | 88.6 | 35 | 0.20 |
| | В | 73.50 | 76.50 | 1 | | | | | | | |
| | С | 70.00 | 79.00 | 1 | | | | | | | |

- [1] $f = 1 \text{ MHz}; V_R = 0 \text{ V}$
- [2] $t_p = 100 \mu s$; $T_{amb} = 25 °C$.



- (1) $T_j = 25 \,^{\circ}\text{C}$ (before surge)
- (2) T_j = 150 °C (before surge)

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

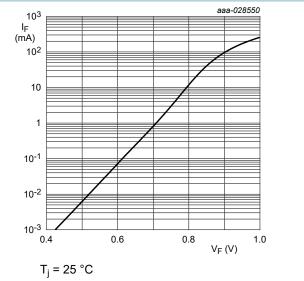


Fig. 2. Forward current as a function of forward voltage; typical values (BZT52H-A/B/C2V4-Q)

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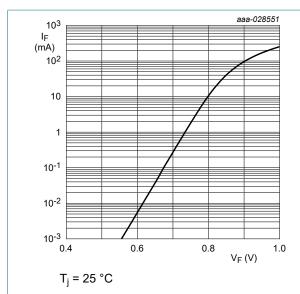


Fig. 3. Forward current as a function of forward voltage; typical values (BZT52H-A/B/C6V8-Q)

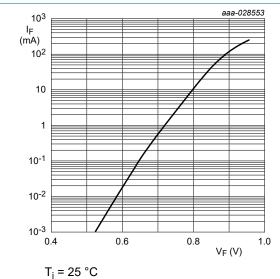


Fig. 5. Forward current as a function of forward voltage; typical values (BZT52H-A/B/C75-Q)

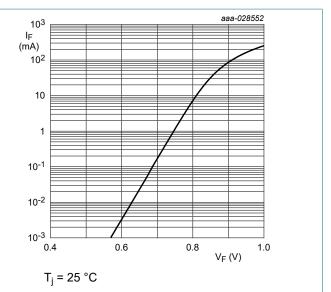


Fig. 4. Forward current as a function of forward voltage; typical values (BZT52H-A/B/C7V5-Q)

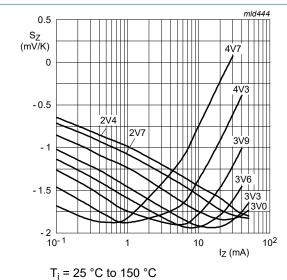


Fig. 6. Temperature coefficient as a function of working current; typical values (BZT52H-A/B/C2V4-Q to BZT52H-A/B/C4V7-Q)

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aaa-006665

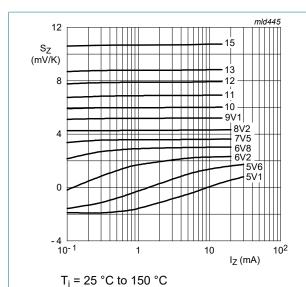
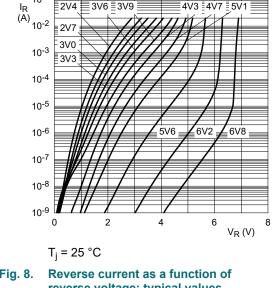


Fig. 7. Temperature coefficient as a function of working current; typical values (BZT52H-A/B/C5V1-Q to BZT52H-A/B/C15-Q)



10⁻¹

Fig. 8. Reverse current as a function of reverse voltage; typical values (BZT52H-A/B/C2V4-Q to BZT52H-A/B/C6V8-Q)

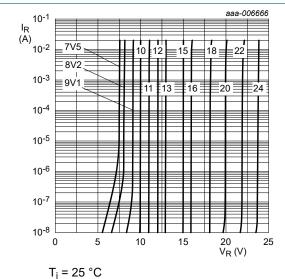


Fig. 9. Reverse current as a function of reverse voltage; typical values (BZT52H-A/B/C7V5-Q to BZT52H-A/B/C24-Q)

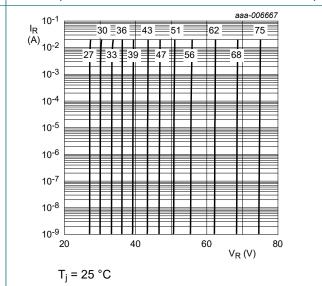


Fig. 10. Reverse current as a function of reverse voltage; typical values (BZT52H-A/B/C27-Q to BZT52H-A/B/C75-Q)

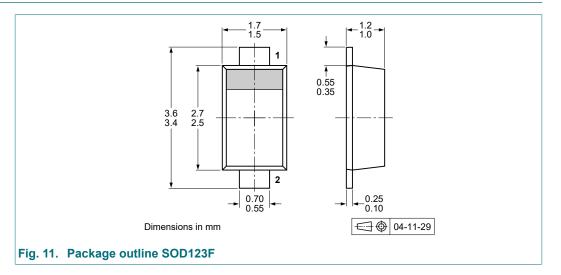
11. Test information

Quality information

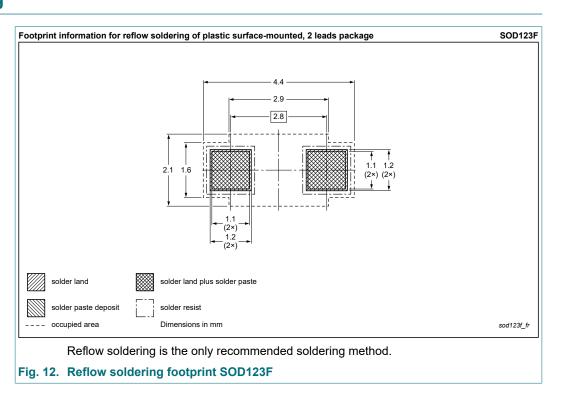
This product has been qualified in accordance with the Automotive Electronics Council (AEC) standard Q101 - *Stress test qualification for discrete semiconductors*, and is suitable for use in automotive applications.

10 / 14

12. Package outline



13. Soldering



14. Revision history

Table 11. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|------------------|--------------|--------------------|---------------|------------|
| BZT52H-Q_SER v.1 | 20211004 | Product data sheet | - | - |

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. |
| Product [short] data sheet | Production | This document contains the product specification. |

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- [2] The term 'short data sheet' is explained in section "Definitions".
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For more information, please visit: http://www.nexperia.com For sales office addresses, please send an email to: salesaddresses@nexperia.com Date of release: 4 October 2021

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