

Voltage regulator diodes Rev. 6 — 4 December 2020

Product data sheet

1. General description

General-purpose Zener diodes in an SOD523 (SC-79) ultra small flat lead Surface-Mounted Device (SMD) plastic package.

2. Features and benefits

- Non-repetitive peak reverse power dissipation: ≤ 40 W
- Total power dissipation: ≤ 300 mW •
- Wide working voltage range: nominal 2.4 V to 75 V (E24 range)
- Two tolerance series: ± 2 % and ± 5 % •
- Low differential resistance
- AEC-Q101 gualified

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 = 100 mA [1] | - | - | 1.1 | V |
| 20111 | non-repetitive peak reverse power dissipation | [2] | - | - | 40 | W |

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

t_p = 100 μs; square wave; T_j = 25 °C before surge [2]

5. Pinning information

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

[1] The marking bar indicates the cathode.



6. Ordering information

| Table 3. Ordering informatio | Table 3. Ordering information | | | | | | | |
|---------------------------------|-------------------------------|--|---------|--|--|--|--|--|
| Type number | nber Package | | | | | | | |
| | Name | Description | Version | | | | | |
| BZX585-B2V4 to BZX585-C75[1] | SC-79 | plastic surface-mounted package; 2 leads | SOD523 | | | | | |

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

7. Marking

| Table 4. Marking C | Codes | | | | _ | | |
|--------------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| Type number | Marking Code | Type number | Marking Code | Type number | Marking Code | Type number | Marking Code |
| BZX585-B2V4 | C1 | BZX585-B15 | E0 | BZX585-C2V4 | F1 | BZX585-C15 | H0 |
| BZX585-B2V7 | C2 | BZX585-B16 | EA | BZX585-C2V7 | F2 | BZX585-C16 | HA |
| BZX585-B3V0 | C3 | BZX585-B18 | EB | BZX585-C3V0 | F3 | BZX585-C18 | HB |
| BZX585-B3V3 | C4 | BZX585-B20 | EC | BZX585-C3V3 | F4 | BZX585-C20 | HC |
| BZX585-B3V6 | C5 | BZX585-B22 | ED | BZX585-C3V6 | F5 | BZX585-C22 | HD |
| BZX585-B3V9 | C6 | BZX585-B24 | EE | BZX585-C3V9 | F6 | BZX585-C24 | HE |
| BZX585-B4V3 | C7 | BZX585-B27 | EF | BZX585-C4V3 | F7 | BZX585-C27 | HF |
| BZX585-B4V7 | C8 | BZX585-B30 | EG | BZX585-C4V7 | F8 | BZX585-C30 | HG |
| BZX585-B5V1 | C9 | BZX585-B33 | EH | BZX585-C5V1 | F9 | BZX585-C33 | HH |
| BZX585-B5V6 | C0 | BZX585-B36 | EK | BZX585-C5V6 | F0 | BZX585-C36 | НК |
| BZX585-B6V2 | E1 | BZX585-B39 | EL | BZX585-C6V2 | H1 | BZX585-C39 | HL |
| BZX585-B6V8 | E2 | BZX585-B43 | EM | BZX585-C6V8 | H2 | BZX585-C43 | НМ |
| BZX585-B7V5 | E3 | BZX585-B47 | EN | BZX585-C7V5 | H3 | BZX585-C47 | HN |
| BZX585-B8V2 | E4 | BZX585-B51 | EP | BZX585-C8V2 | H4 | BZX585-C51 | HP |
| BZX585-B9V1 | E5 | BZX585-B56 | ER | BZX585-C9V1 | H5 | BZX585-C56 | HR |
| BZX585-B10 | E6 | BZX585-B62 | ES | BZX585-C10 | H6 | BZX585-C62 | HS |
| BZX585-B11 | E7 | BZX585-B68 | ET | BZX585-C11 | H7 | BZX585-C68 | HT |
| BZX585-B12 | E8 | BZX585-B75 | EU | BZX585-C12 | H8 | BZX585-C75 | HU |
| BZX585-B13 | E9 | - | - | BZX585-C13 | H9 | - | - |

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 |
| I _{ZSM} | non-repetitive peak reverse current | t _p = 100 μs; square wave; T _{amb} = 25 °C; prior to surge | - | see Ta | ble 8 and | 19 |
| 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] | - | 300 | mW |
| Tj | junction temperature | | | -65 | 150 | °C |
| T _{amb} | ambient temperature | | | -65 | +150 | °C |
| T _{stg} | storage temperature | | | -65 | +150 | °C |

[1] Device mounted on an FR4 Printed-Circuit Board (PCB) with approximately 35 mm² Cu area at cathode tab

9. Thermal characteristics

Table 6. Thermal characteristics

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|--------|--|-----------------|-----|-----|-----|------|
| | thermal resistance from junction to ambient | in free air [1] | - | - | 350 | K/W |
| | thermal resistance from junction to solder point | [2] | - | - | 65 | K/W |

[1] Device mounted on an FR4 Printed-Circuit Board (PCB) with approximately 35 mm² Cu area at cathode tab

[2] Soldering point of cathode tab

10. Characteristics

Table 7. Electrical characteristics

 $T_i = 25$ °C unless otherwise specified.

| Symbol | Parameter | Conditions | | Мах | Unit |
|----------------|-----------------|-------------------------|-----|-----|------|
| V _F | forward voltage | I _F = 10 mA | [1] | 0.9 | V |
| | | I _F = 100 mA | [1] | 1.1 | V |

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

Table 8. Electrical characteristics per type: BZX585-B2V4 to BZX585-C24

 T_i = 25 °C unless otherwise specified.

| BZX585- | Sel | vo | orking oltage Z (V) | Diffe | erential ^r dif | l resist f (Ω) | tance | cur | verse rrent (µA) | C | empera coeffici Sz (mV | ient | Diode capacit. C _d | Non-repeti. peak reverse current | |
|---------|-----|--------------------|---------------------------|--------------------|------------------------------|--------------------|-------|------|------------------------|-----------------------|------------------------------|------|-------------------------------------|--|--|
| | | I _Z = 5 | mA | I _Z = 1 | mA | I _Z = 4 | 5 mA | | | I _Z = 5 mA | | | (pF) <mark>[1]</mark> | I _{ZSM} (A) [2] | |
| | | Min | Max | Тур | Max | Тур | Мах | Max | V _R (V) | Min | Тур | Max | Max | Мах | |
| 2V4 | В | 2.35 | 2.45 | 275 | 400 | 70 | 100 | 50.0 | 1.0 | -3.5 | -1.3 | 0 | 450 | 6.0 | |
| | С | 2.28 | 2.52 | | | | | | | | | | | | |
| 2V7 | В | 2.65 | 2.75 | 300 | 450 | 75 | 100 | 20.0 | 1.0 | -3.5 | -1.4 | 0 | 440 | 6.0 | |
| | С | 2.57 | 2.84 | | | | | | | | | | | | |
| 3V0 | В | 2.94 | 3.06 | 325 | 500 | 80 | 95 | 10.0 | 1.0 | -3.5 | -1.6 | 0 | 425 | 6.0 | |
| | С | 2.85 | 3.15 | | | | | | | | | | | | |
| 3V3 | В | 3.23 | 3.37 | 350 | 500 | 85 | 95 | 5.0 | 1.0 | -3.5 | -1.8 | 0 | 410 | 6.0 | |
| | С | 3.14 | 3.47 | | | | | | | | | | | | |
| 3V6 | В | 3.53 | 3.67 | 375 | 500 | 85 | 90 | 5.0 | 1.0 | -3.5 | -1.9 | 0 | 390 | 6.0 | |
| | С | 3.42 | 3.78 | | | | | | | | | | | | |
| 3V9 | В | 3.82 | 3.98 | 400 | 500 | 85 | 90 | 3.0 | 1.0 | -3.5 | -1.9 | 0 | 370 | 6.0 | |
| | С | 3.71 | 4.10 | | | | | | | | | | | | |
| 4V3 | В | 4.21 | 4.39 | 410 | 600 | 80 | 90 | 3.0 | 1.0 | -3.5 | -1.7 | 0 | 350 | 6.0 | |
| | С | 4.09 | 4.52 | | | | | | | | | | | | |
| 4V7 | В | 4.61 | 4.79 | 425 | 500 | 50 | 80 | 3.0 | 2.0 | -3.5 | -1.2 | 0.2 | 325 | 6.0 | |
| | С | 4.47 | 4.94 | - | | | | | | | | | | | |
| 5V1 | В | 5.00 | 5.20 | 400 | 480 | 40 | 60 | 2.0 | 2.0 | -2.7 | -0.5 | 1.2 | 300 | 6.0 | |
| | С | 4.85 | 5.36 | - | | | | | | | | | | | |
| 5V6 | В | 5.49 | 5.71 | 80 | 400 | 15 | 40 | 1.0 | 2.0 | -2.0 | 1.0 | 2.5 | 275 | 6.0 | |
| | С | 5.32 | 5.88 | - | | | | | | | | | | | |
| 6V2 | В | 6.08 | 6.32 | 40 | 150 | 6 | 10 | 3.0 | 4.0 | 0.4 | 2.2 | 3.7 | 250 | 6.0 | |
| | С | 5.89 | 6.51 | - | | | | | | | | | | | |
| 6V8 | В | 6.66 | 6.94 | 30 | 80 | 6 | 15 | 2.0 | 4.0 | 1.2 | 3.0 | 4.5 | 215 | 6.0 | |
| | С | 6.46 | 7.14 | - | | | | | | | | | | | |
| 7V5 | В | 7.35 | 7.65 | 15 | 80 | 2 | 10 | 1.0 | 5.0 | 2.5 | 3.6 | 5.3 | 170 | 4.0 | |
| | С | 7.13 | 7.88 | - | | | | | | | | | | | |
| 8V2 | В | 8.04 | 8.36 | 20 | 80 | 2 | 10 | 0.7 | 5.0 | 3.2 | 4.3 | 6.2 | 150 | 4.0 | |
| | С | 7.79 | 8.61 | - | | | | | | | | | | | |
| | - | | | | | | | | | | | | | | |

BZX585_SER

Voltage regulator diodes

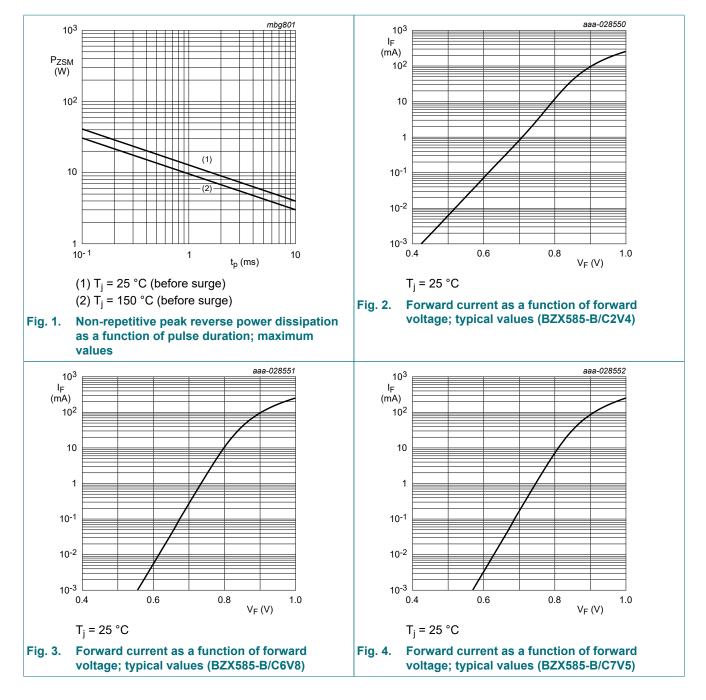
| BZX585- | vol | | rking Itage <u>r</u> (V) | Differential resistance r _{diff} (Ω) | | | | | verse rrent (μΑ) | c | empera coeffici Sz (mV | ent | Diode capacit. C _d | Non-repeti. peak reverse current |
|---------|-----|------------------|--------------------------------|--|---|-----|-----|------|------------------------|------|------------------------------|-----------------------|-------------------------------------|--|
| | | l <u>z</u> = 5 r | I <u>Z</u> = 5 mA | | I _Z = 1 mA I _Z = 5 mA | | | | I _Z = 5 mA | | | (pF) <mark>[1]</mark> | I _{ZSM} (A) [2] | |
| | | Min | Max | Тур | Мах | Тур | Max | Max | V _R (V) | Min | Тур | Мах | Мах | Max |
| 9V1 | В | 8.92 | 9.28 | 20 | 100 | 2 | 10 | 0.5 | 6.0 | 3.8 | 5.2 | 7.0 | 120 | 3.0 |
| | С | 8.65 | 9.56 | | | | | | | | | | | |
| 10 | В | 9.80 | 10.20 | 20 | 150 | 2 | 10 | 0.2 | 7.0 | 4.5 | 6.0 | 8.0 | 110 | 3.0 |
| | С | 9.50 | 10.50 | | | | | | | | | | | |
| 11 | В | 10.78 | 11.22 | 25 | 150 | 2 | 10 | 0.1 | 8.0 | 5.4 | 6.9 | 9.0 | 110 | 2.5 |
| | С | 10.45 | 11.55 | | | | | | | | | | | |
| 12 | В | 11.76 | 12.24 | 25 | 150 | 2 | 10 | 0.1 | 8.0 | 6.0 | 7.9 | 10.0 | 105 | 2.5 |
| | С | 11.40 | 12.60 | | | | | | | | | | | |
| 13 | В | 12.74 | 13.26 | 25 | 170 | 2 | 10 | 0.1 | 8.0 | 7.0 | 8.8 | 11.0 | 105 | 2.5 |
| | С | 12.35 | 13.65 | | | | | | | | | | | |
| 15 | В | 14.70 | 15.30 | 25 | 200 | 3 | 15 | 0.05 | 10.5 | 9.2 | 10.7 | 13.0 | 100 | 2.0 |
| | С | 14.25 | 15.75 | | | | | | | | | | | |
| 16 | В | 15.68 | 16.32 | 50 | 200 | 10 | 40 | 0.05 | 11.2 | 10.4 | 12.4 | 14.0 | 90 | 1.5 |
| | С | 15.20 | 16.80 | | | | | | | | | | | |
| 18 | В | 17.64 | 18.36 | 50 | 225 | 10 | 45 | 0.05 | 12.6 | 12.4 | 14.4 | 16.0 | 80 | 1.5 |
| | С | 17.10 | 18.90 | | | | | | | | | | | |
| 20 | В | 19.60 | 20.40 | 60 | 225 | 15 | 55 | 0.05 | 14.0 | 14.4 | 16.4 | 18.0 | 70 | 1.5 |
| | С | 19.00 | 21.00 | 1 | | | | | | | | | | |
| 22 | В | 21.56 | 22.44 | 60 | 250 | 20 | 55 | 0.05 | 15.4 | 16.4 | 18.4 | 20.0 | 60 | 1.25 |
| | С | 20.90 | 23.10 | 1 | | | | | | | | | | |
| 24 | В | 23.52 | 24.48 | 60 | 250 | 25 | 70 | 0.05 | 16.8 | 18.4 | 20.4 | 22.0 | 55 | 1.25 |
| | С | 22.80 | 25.20 | 7 | | | | | | | | | | |

Voltage regulator diodes

| BZX585- Sel | | vo | Working voltage Vz (V) | | Differential resistance r _{diff} (Ω) | | | cur | Reverse current I _R (μΑ) | | oeratu ficient nV/K) | re | Diode capacit. C _d | Non-repeti. peak reverse current |
|-------------|---|------------------|------------------------------|-----|--|-----|-----|------|---|------|----------------------------|-----------------------|-------------------------------------|--|
| | | l <u>z</u> = 2 r | I _Z = 2 mA | | I _Z = 0.5 mA I _Z = 2 mA | | | | I _Z = 2 mA | | | (pF) <mark>[1]</mark> | I _{ZSM} (A) [2] | |
| | | Min | Max | Тур | Мах | Тур | Max | Max | V _R (V) | Min | Тур | Max | Мах | Мах |
| 27 | В | 26.46 | 27.54 | 65 | 300 | 25 | 80 | 0.05 | 18.9 | 21.4 | 23.4 | 25.3 | 50 | 1.0 |
| | С | 25.65 | 28.35 | | | | | | | | | | | |
| 30 | В | 29.40 | 30.60 | 70 | 300 | 30 | 80 | 0.05 | 21.0 | 24.4 | 26.6 | 29.4 | 50 | 1.0 |
| | С | 28.50 | 31.50 | 1 | | | | | | | | | | |
| 33 | В | 32.34 | 33.66 | 75 | 325 | 35 | 80 | 0.05 | 23.1 | 27.4 | 29.7 | 33.4 | 45 | 0.9 |
| | С | 31.35 | 34.65 | 1 | | | | | | | | | | |
| 36 | В | 35.28 | 36.72 | 80 | 350 | 35 | 90 | 0.05 | 25.2 | 30.4 | 33.0 | 37.4 | 45 | 0.8 |
| | С | 34.20 | 37.80 | 1 | | | | | | | | | | |
| 39 | В | 38.22 | 39.78 | 80 | 350 | 40 | 130 | 0.05 | 27.3 | 33.4 | 36.4 | 41.2 | 45 | 0.7 |
| | С | 37.05 | 40.95 | 1 | | | | | | | | | | |
| 43 | В | 42.14 | 43.86 | 85 | 375 | 45 | 150 | 0.05 | 30.1 | 37.6 | 41.2 | 46.6 | 40 | 0.6 |
| | С | 40.85 | 45.15 | 1 | | | | | | | | | | |
| 47 | В | 46.06 | 47.94 | 85 | 375 | 50 | 170 | 0.05 | 32.9 | 42.0 | 46.1 | 51.8 | 40 | 0.5 |
| | С | 44.65 | 49.35 | 7 | | | | | | | | | | |
| 51 | В | 49.98 | 52.02 | 90 | 400 | 60 | 180 | 0.05 | 35.7 | 46.6 | 51.0 | 57.2 | 40 | 0.4 |
| | С | 48.45 | 53.55 | | | | | | | | | | | |
| 56 | В | 54.88 | 57.12 | 100 | 425 | 70 | 200 | 0.05 | 39.2 | 52.2 | 57.0 | 63.8 | 40 | 0.3 |
| | С | 53.20 | 58.80 | | | | | | | | | | | |
| 62 | В | 60.76 | 63.24 | 120 | 450 | 80 | 215 | 0.05 | 43.4 | 58.8 | 64.4 | 71.6 | 35 | 0.3 |
| | С | 58.90 | 65.10 | | | | | | | | | | | |
| 68 | В | 66.64 | 69.36 | 150 | 475 | 90 | 240 | 0.05 | 47.6 | 65.6 | 71.7 | 79.8 | 35 | 0.25 |
| | С | 64.60 | 71.40 | | | | | | | | | | | |
| 75 | В | 73.50 | 76.50 | 170 | 500 | 95 | 255 | 0.05 | 52.5 | 73.4 | 80.2 | 88.6 | 35 | 0.2 |
| | С | 71.25 | 78.75 | 7 | | | | | | | | | | |

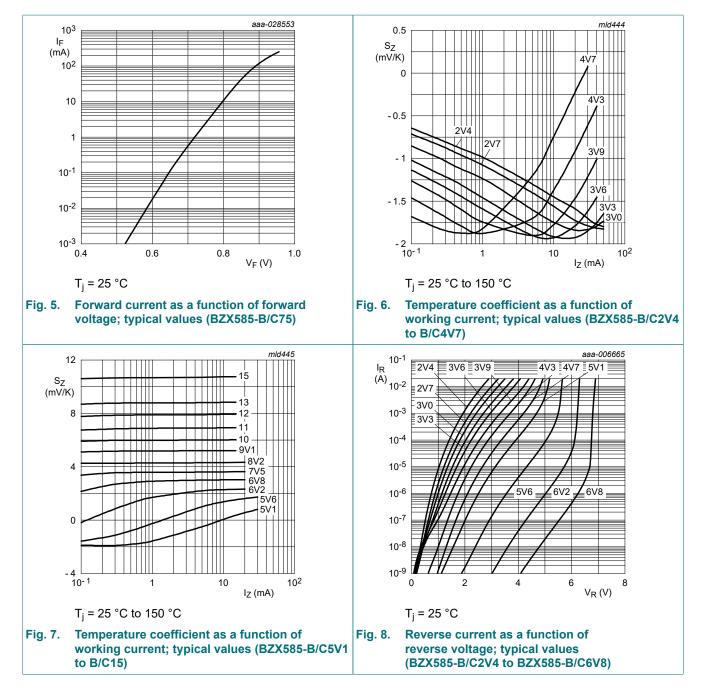
Table 9. Electrical characteristics per type: BZX585-B27 to BZX585-C75

Voltage regulator diodes



BZX585_SER

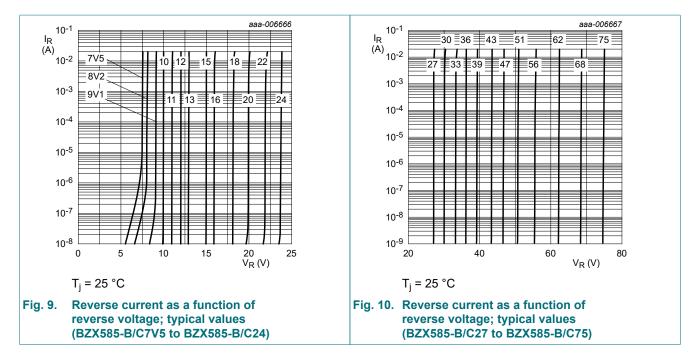
Voltage regulator diodes



Product data sheet

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Voltage regulator diodes

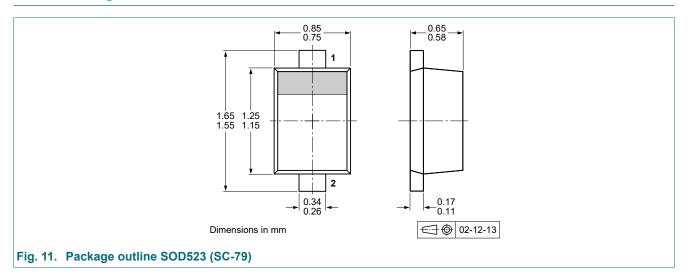


11. Test information

Quality information

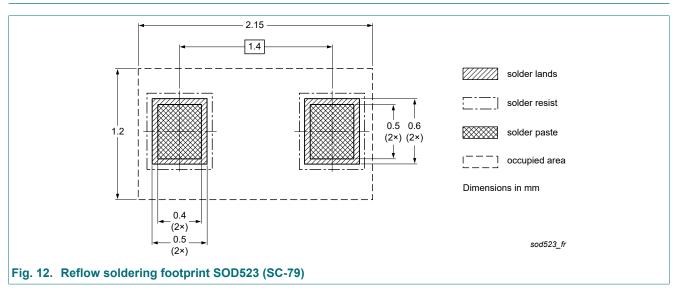
This product has been qualified in accordance with the Automotive Electronics Council (AEC) standard Q101 - Stress test qualification for discrete semiconductors, and is suitable for use in automotive applications.

12. Package outline



Voltage regulator diodes

13. Soldering



14. Revision history

| Table 10. Revision histor | У | | | |
|---------------------------|---------------|--------------------|---------------|----------------|
| Document ID | Release date | Data sheet status | Change notice | Supersedes |
| BZX585_SER v.6 | 20201204 | Product data sheet | - | BZX585_SER v.5 |
| Modifications: | Characteristi | cs: Figures added | | |
| BZX585_SER v.5 | 20161011 | Product data sheet | - | BZX585_SER v.4 |
| BZX585_SER v.4 | 20040622 | Product data sheet | - | BZX585_SER v.3 |
| BZX585_SER v.3 | 20040326 | Product data sheet | - | BZX585_SER v.2 |
| BZX585_SER v.2 | 20001020 | Product data sheet | - | BZX585_SER v.1 |
| BZX585_SER v.1 | 20000606 | Product data sheet | - | - |

BZX585_SER

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. |

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

- [2] The term 'short data sheet' is explained in section "Definitions".
- [3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the internet at <u>https://www.nexperia.com</u>.

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