



# BZX384-A series

## Voltage regulator diodes

Rev. 1 — 3 February 2022

Product data sheet

## 1. General description

Low-power voltage regulator diodes in a small SOD323 (SC-76) Surface-Mounted Device (SMD) plastic package.

The diodes are available in the normalized E24  $\pm 1\%$  (BZX384-A) tolerance range. The series includes 37 breakdown voltages with nominal working voltages from 2.4 V to 75 V.

## 2. Features and benefits

- Total power dissipation:  $\leq 300$  mW
- Very tight tolerance series:  $\pm 1\%$
- Working voltage range: nominal 2.4 V to 75 V (E24 range)
- Non-repetitive peak reverse power dissipation:  $\leq 40$  W

## 3. Applications

- General regulation functions

## 4. Quick reference data

Table 1. Quick reference data

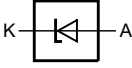
| Symbol    | Parameter               | Conditions           |     | Min | Typ | Max | Unit |
|-----------|-------------------------|----------------------|-----|-----|-----|-----|------|
| $V_F$     | forward voltage         | $I_F = 10$ mA        | [1] | -   | -   | 0.9 | V    |
| $P_{tot}$ | total power dissipation | $T_{amb} \leq 25$ °C | [2] | -   | -   | 300 | mW   |

[1] Pulse test:  $t_p \leq 100$   $\mu$ s;  $\delta \leq 0.02$ .

[2] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated and standard footprint.

5. Pinning information

Table 2. Pinning

| Pin | Symbol | Description |     | Simplified outline                                                                 | Graphic symbol                                                                                   |
|-----|--------|-------------|-----|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 1   | K      | cathode     | [1] |  | <br>006aaa152 |
| 2   | A      | anode       |     |                                                                                    |                                                                                                  |

[1] The marking bar indicates the cathode.

6. Ordering information

Table 3. Ordering information

| Type number     | Package |                                          |         |
|-----------------|---------|------------------------------------------|---------|
|                 | Name    | Description                              | Version |
| BZX384-A series | SC-76   | plastic surface-mounted package; 2 leads | SOD323  |

7. Marking

Table 4. Marking codes

| Type number | Marking code | Type number | Marking code | Type number | Marking code |
|-------------|--------------|-------------|--------------|-------------|--------------|
| BZX384-A2V4 | 2B           | BZX384-A8V2 | 28           | BZX384-A30  | 5F           |
| BZX384-A2V7 | 2U           | BZX384-A9V1 | 29           | BZX384-A33  | 4R           |
| BZX384-A3V0 | 2V           | BZX384-A10  | 3X           | BZX384-A36  | 4S           |
| BZX384-A3V3 | 2W           | BZX384-A11  | 32           | BZX384-A39  | 4T           |
| BZX384-A3V6 | 2X           | BZX384-A12  | 33           | BZX384-A43  | 4U           |
| BZX384-A3V9 | 2Y           | BZX384-A13  | 34           | BZX384-A47  | 4V           |
| BZX384-A4V3 | 2Z           | BZX384-A15  | 35           | BZX384-A51  | 4W           |
| BZX384-A4V7 | 22           | BZX384-A16  | 36           | BZX384-A56  | 4X           |
| BZX384-A5V1 | 23           | BZX384-A18  | 37           | BZX384-A62  | 4Y           |
| BZX384-A5V6 | 24           | BZX384-A20  | 38           | BZX384-A68  | 4Z           |
| BZX384-A6V2 | 25           | BZX384-A22  | 39           | BZX384-A75  | 42           |
| BZX384-A6V8 | 26           | BZX384-A24  | 4N           | -           | -            |
| BZX384-A7V5 | 27           | BZX384-A27  | 4P           | -           | -            |

## 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                               |                             |     | -   | 250                | mA   |
| $I_{ZSM}$ | non-repetitive peak reverse current           |                             | [1] | -   | see Tables 8 and 9 |      |
| $P_{ZSM}$ | non-repetitive peak reverse power dissipation |                             | [1] | -   | 40                 | W    |
| $P_{tot}$ | total power dissipation                       | $T_{amb} \leq 25\text{ °C}$ | [2] | -   | 300                | mW   |
| $T_j$     | junction temperature                          |                             |     | -   | 150                | °C   |
| $T_{amb}$ | ambient temperature                           |                             |     | -65 | +150               | °C   |
| $T_{stg}$ | storage temperature                           |                             |     | -65 | +150               | °C   |

[1]  $t_p = 100\text{ }\mu\text{s}$ ; square wave;  $T_j = 25\text{ °C}$  prior to surge.

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

## 9. Thermal characteristics

**Table 6. Thermal characteristics**

| Symbol         | Parameter                                        | Conditions  |     | Min | Typ | Max | Unit |
|----------------|--------------------------------------------------|-------------|-----|-----|-----|-----|------|
| $R_{th(j-a)}$  | thermal resistance from junction to ambient      | in free air | [1] | -   | -   | 415 | K/W  |
| $R_{th(j-sp)}$ | thermal resistance from junction to solder point |             | [2] | -   | -   | 110 | K/W  |

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

[2] Soldering point of cathode tab.

## 10. Characteristics

**Table 7. Characteristics**

$T_j = 25\text{ }^{\circ}\text{C}$  unless otherwise specified.

| Symbol | Parameter       | Conditions            | Min   | Typ | Max | Unit |
|--------|-----------------|-----------------------|-------|-----|-----|------|
| $V_F$  | forward voltage | $I_F = 10\text{ mA}$  | [1] - | -   | 0.9 | V    |
|        |                 | $I_F = 100\text{ mA}$ | [1] - | -   | 1.1 | V    |

[1] Pulse test:  $t_p \leq 100\text{ }\mu\text{s}$ ;  $\delta \leq 0.02$ .

**Table 8. Characteristics per type; BZX384-A2V4 to BZX384-A24**

$T_j = 25\text{ }^{\circ}\text{C}$  unless otherwise specified.

| BZX384-xxx | Sel | Working voltage<br>$V_Z$ (V)<br>$I_Z = 5\text{ mA}$ |       | Maximum differential resistance<br>$r_{dif}$ ( $\Omega$ ) |                     | Reverse current<br>$I_R$ ( $\mu\text{A}$ ) |           | Temperature coefficient<br>$S_Z$ (mV/K)<br>$I_Z = 5\text{ mA}$ |      | Diode capacitance<br>$C_d$ (pF) [1] | Non-repetitive peak reverse current<br>$I_{ZSM}$ (A) [2] |
|------------|-----|-----------------------------------------------------|-------|-----------------------------------------------------------|---------------------|--------------------------------------------|-----------|----------------------------------------------------------------|------|-------------------------------------|----------------------------------------------------------|
|            |     | Min                                                 | Max   | $I_Z = 1\text{ mA}$                                       | $I_Z = 5\text{ mA}$ | Max                                        | $V_R$ (V) | Min                                                            | Max  | Max                                 | Max                                                      |
| 2V4        | A   | 2.37                                                | 2.43  | 600                                                       | 100                 | 50                                         | 1         | -3.5                                                           | 0.0  | 450                                 | 6                                                        |
| 2V7        | A   | 2.67                                                | 2.73  | 600                                                       | 100                 | 20                                         | 1         | -3.5                                                           | 0.0  | 450                                 | 6                                                        |
| 3V0        | A   | 2.97                                                | 3.03  | 600                                                       | 95                  | 10                                         | 1         | -3.5                                                           | 0.0  | 450                                 | 6                                                        |
| 3V3        | A   | 3.26                                                | 3.34  | 600                                                       | 95                  | 5                                          | 1         | -3.5                                                           | 0.0  | 450                                 | 6                                                        |
| 3V6        | A   | 3.56                                                | 3.64  | 600                                                       | 90                  | 5                                          | 1         | -3.5                                                           | 0.0  | 450                                 | 6                                                        |
| 3V9        | A   | 3.86                                                | 3.94  | 600                                                       | 90                  | 3                                          | 1         | -3.5                                                           | 0.0  | 450                                 | 6                                                        |
| 4V3        | A   | 4.25                                                | 4.35  | 600                                                       | 90                  | 3                                          | 1         | -3.5                                                           | 0.0  | 450                                 | 6                                                        |
| 4V7        | A   | 4.65                                                | 4.75  | 500                                                       | 80                  | 3                                          | 2         | -3.5                                                           | 0.2  | 300                                 | 6                                                        |
| 5V1        | A   | 5.04                                                | 5.16  | 480                                                       | 60                  | 2                                          | 2         | -2.7                                                           | 1.2  | 300                                 | 6                                                        |
| 5V6        | A   | 5.54                                                | 5.66  | 400                                                       | 40                  | 1                                          | 2         | -2.0                                                           | 2.5  | 300                                 | 6                                                        |
| 6V2        | A   | 6.13                                                | 6.27  | 150                                                       | 10                  | 3                                          | 4         | 0.4                                                            | 3.7  | 200                                 | 6                                                        |
| 6V8        | A   | 6.73                                                | 6.87  | 80                                                        | 15                  | 2                                          | 4         | 1.2                                                            | 4.5  | 200                                 | 6                                                        |
| 7V5        | A   | 7.42                                                | 7.58  | 80                                                        | 15                  | 1                                          | 5         | 2.5                                                            | 5.3  | 150                                 | 4                                                        |
| 8V2        | A   | 8.11                                                | 8.29  | 80                                                        | 15                  | 0.7                                        | 5         | 3.2                                                            | 6.2  | 150                                 | 4                                                        |
| 9V1        | A   | 9.00                                                | 9.20  | 100                                                       | 15                  | 0.5                                        | 6         | 3.8                                                            | 7.0  | 150                                 | 3                                                        |
| 10         | A   | 9.90                                                | 10.10 | 150                                                       | 20                  | 0.2                                        | 7         | 4.5                                                            | 8.0  | 90                                  | 3                                                        |
| 11         | A   | 10.89                                               | 11.11 | 150                                                       | 20                  | 0.1                                        | 8         | 5.4                                                            | 9.0  | 85                                  | 2.5                                                      |
| 12         | A   | 11.88                                               | 12.12 | 150                                                       | 25                  | 0.1                                        | 8         | 6.0                                                            | 10.0 | 85                                  | 2.5                                                      |
| 13         | A   | 12.87                                               | 13.13 | 170                                                       | 30                  | 0.1                                        | 8         | 7.0                                                            | 11.0 | 80                                  | 2.5                                                      |
| 15         | A   | 14.85                                               | 15.15 | 200                                                       | 30                  | 0.05                                       | 10.5      | 9.2                                                            | 13.0 | 75                                  | 2.0                                                      |
| 16         | A   | 15.84                                               | 16.16 | 200                                                       | 40                  | 0.05                                       | 11.2      | 10.4                                                           | 14.0 | 75                                  | 1.5                                                      |
| 18         | A   | 17.82                                               | 18.18 | 225                                                       | 45                  | 0.05                                       | 12.6      | 12.4                                                           | 16.0 | 70                                  | 1.5                                                      |
| 20         | A   | 19.80                                               | 20.20 | 225                                                       | 55                  | 0.05                                       | 14.0      | 14.4                                                           | 18.0 | 60                                  | 1.5                                                      |
| 22         | A   | 21.78                                               | 22.22 | 250                                                       | 55                  | 0.05                                       | 15.4      | 16.4                                                           | 20.0 | 60                                  | 1.25                                                     |
| 24         | A   | 23.76                                               | 24.24 | 250                                                       | 70                  | 0.05                                       | 16.8      | 18.4                                                           | 22.0 | 55                                  | 1.25                                                     |

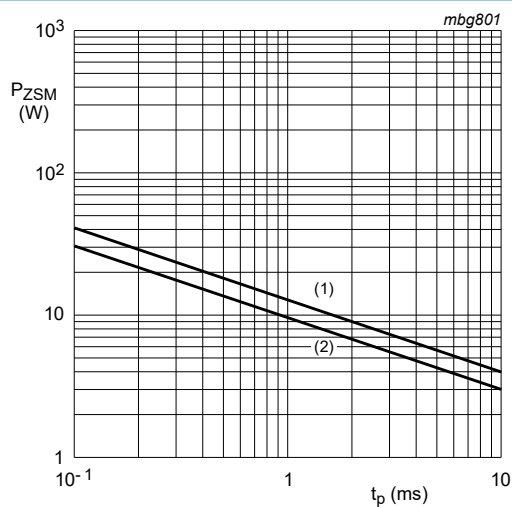
[1]  $f = 1\text{ MHz}$ ;  $V_R = 0\text{ V}$

[2]  $t_p = 100\text{ }\mu\text{s}$ ; square wave;  $T_j = 25\text{ }^{\circ}\text{C}$

Table 9. Characteristics per type; BZX384-A27 to BZX384-A75

 $T_j = 25\text{ }^{\circ}\text{C}$  unless otherwise specified.

| BZX384-xxx | Sel | Working voltage<br>$V_Z$ (V)<br>$I_Z = 2\text{ mA}$ |       | Maximum differential resistance<br>$r_{\text{dif}}$ ( $\Omega$ ) |                     | Reverse current<br>$I_R$ ( $\mu\text{A}$ ) |           | Temperature coefficient<br>$S_Z$ (mV/K)<br>$I_Z = 2\text{ mA}$ |      | Diode capacitance<br>$C_d$ (pF) [1] | Non-repetitive peak reverse current<br>$I_{ZSM}$ (A) [2] |
|------------|-----|-----------------------------------------------------|-------|------------------------------------------------------------------|---------------------|--------------------------------------------|-----------|----------------------------------------------------------------|------|-------------------------------------|----------------------------------------------------------|
|            |     | Min                                                 | Max   | $I_Z = 0.5\text{ mA}$                                            | $I_Z = 2\text{ mA}$ | Max                                        | $V_R$ (V) | Min                                                            | Max  | Max                                 | Max                                                      |
| 27         | A   | 26.73                                               | 27.27 | 300                                                              | 80                  | 0.05                                       | 18.9      | 21.4                                                           | 25.3 | 50                                  | 1                                                        |
| 30         | A   | 29.70                                               | 30.30 | 300                                                              | 80                  | 0.05                                       | 21.0      | 24.4                                                           | 29.4 | 50                                  | 1                                                        |
| 33         | A   | 32.67                                               | 33.33 | 325                                                              | 80                  | 0.05                                       | 23.1      | 27.4                                                           | 33.4 | 45                                  | 0.9                                                      |
| 36         | A   | 35.64                                               | 36.36 | 350                                                              | 90                  | 0.05                                       | 25.2      | 30.4                                                           | 37.4 | 45                                  | 0.8                                                      |
| 39         | A   | 38.61                                               | 39.39 | 350                                                              | 130                 | 0.05                                       | 27.3      | 33.4                                                           | 41.2 | 45                                  | 0.7                                                      |
| 43         | A   | 42.57                                               | 43.43 | 375                                                              | 150                 | 0.05                                       | 30.1      | 37.6                                                           | 46.6 | 40                                  | 0.6                                                      |
| 47         | A   | 46.53                                               | 47.47 | 375                                                              | 170                 | 0.05                                       | 32.9      | 42.0                                                           | 51.8 | 40                                  | 0.5                                                      |
| 51         | A   | 50.49                                               | 51.51 | 400                                                              | 180                 | 0.05                                       | 35.7      | 46.6                                                           | 57.2 | 40                                  | 0.4                                                      |
| 56         | A   | 55.44                                               | 56.56 | 425                                                              | 200                 | 0.05                                       | 39.2      | 52.2                                                           | 63.8 | 40                                  | 0.3                                                      |
| 62         | A   | 61.38                                               | 62.62 | 450                                                              | 215                 | 0.05                                       | 43.4      | 58.8                                                           | 71.6 | 35                                  | 0.3                                                      |
| 68         | A   | 67.32                                               | 68.68 | 475                                                              | 240                 | 0.05                                       | 47.6      | 65.6                                                           | 79.8 | 35                                  | 0.25                                                     |
| 75         | A   | 74.25                                               | 75.75 | 500                                                              | 255                 | 0.05                                       | 52.5      | 73.4                                                           | 88.6 | 35                                  | 0.20                                                     |

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

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

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

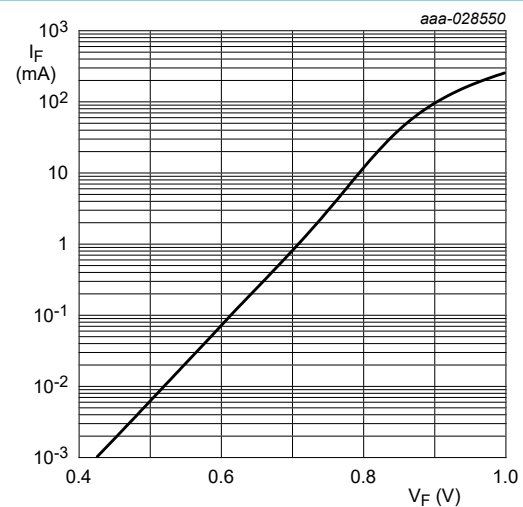
 $T_j = 25\text{ }^{\circ}\text{C}$ 

Fig. 2. Forward current as a function of forward voltage; typical values (BZX384-A2V4)

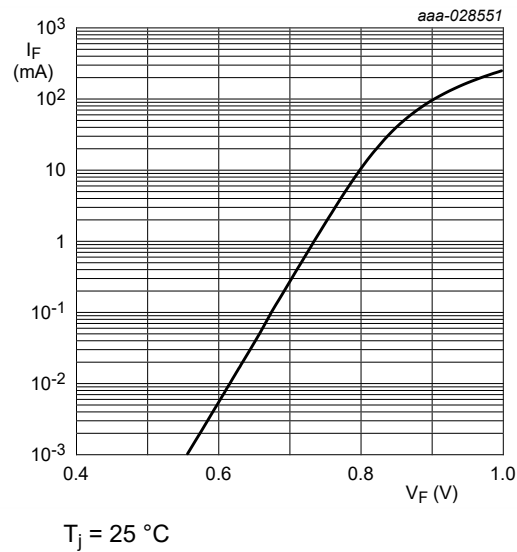


Fig. 3. Forward current as a function of forward voltage; typical values (BZX384-A6V8)

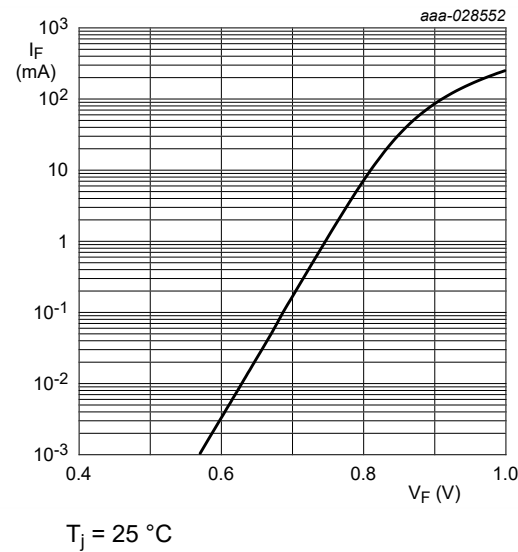


Fig. 4. Forward current as a function of forward voltage; typical values (BZX384-A7V5)

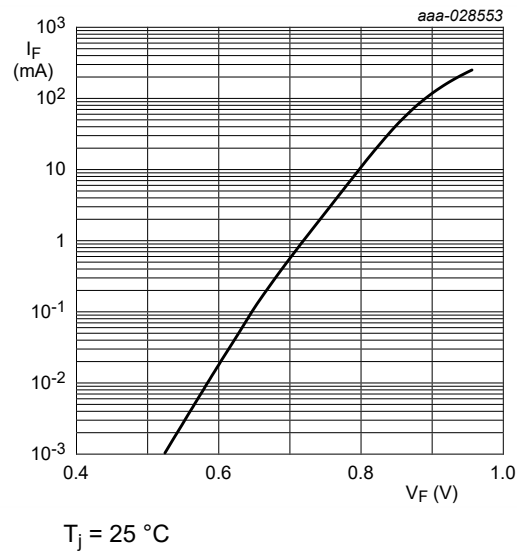


Fig. 5. Forward current as a function of forward voltage; typical values (BZX384-A75)

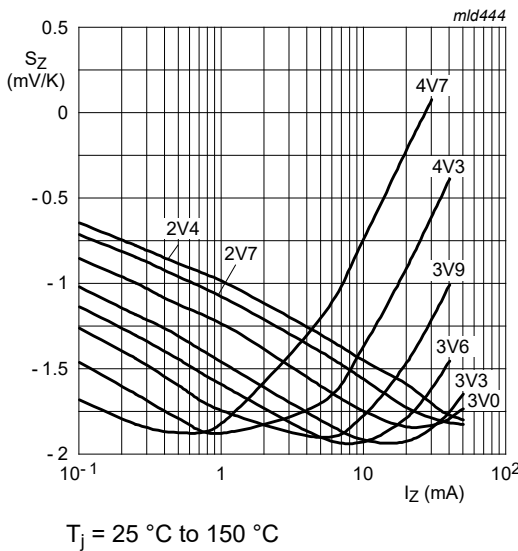


Fig. 6. Temperature coefficient as a function of working current; typical values (BZX384-A2V4 to BZX384-A4V7)

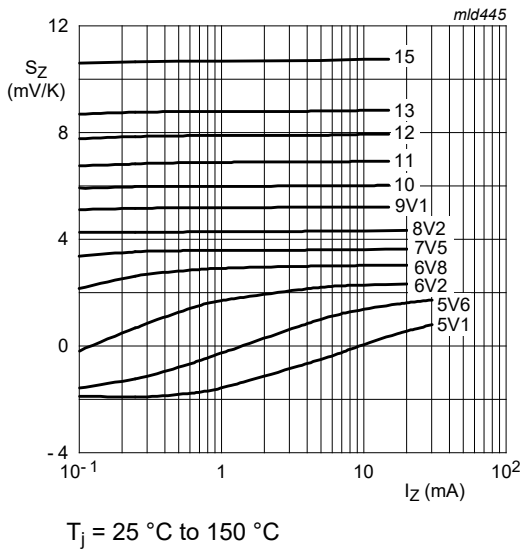


Fig. 7. Temperature coefficient as a function of working current; typical values (BZX384-A5V1 to BZX384-A15)

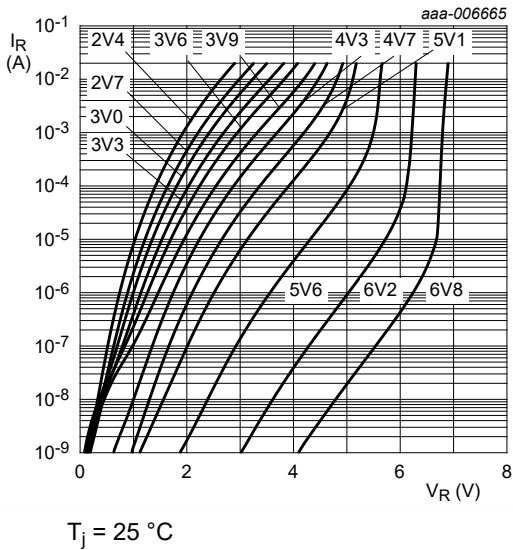


Fig. 8. Reverse current as a function of reverse voltage; typical values (BZX384-A2V4 to BZX384-A6V8)

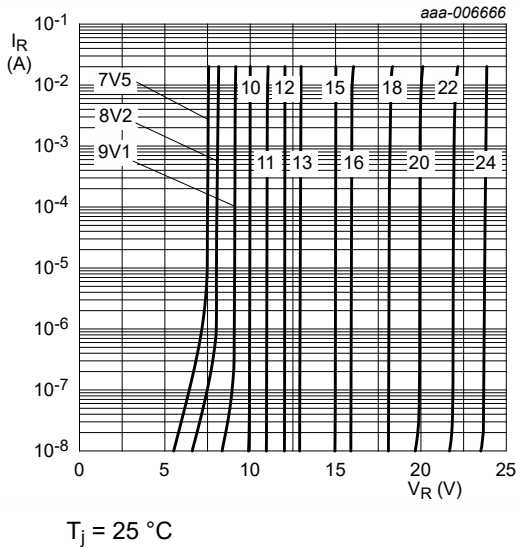


Fig. 9. Reverse current as a function of reverse voltage; typical values (BZX384-A7V5 to BZX384-A24)

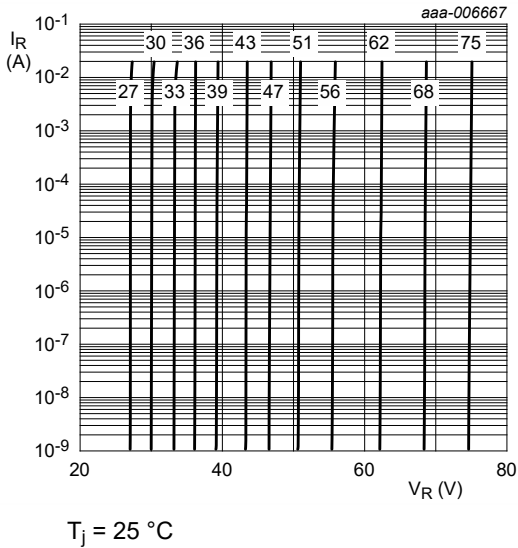
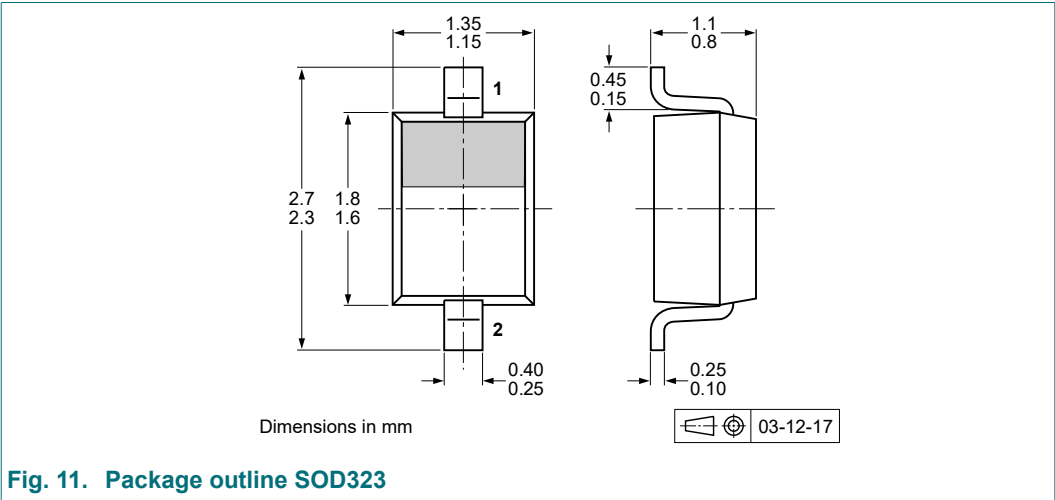
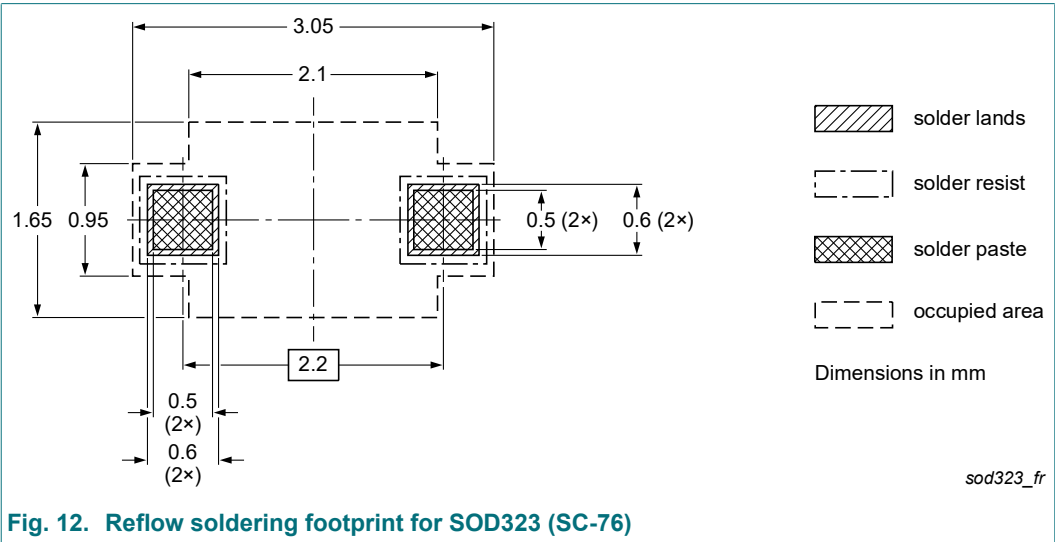


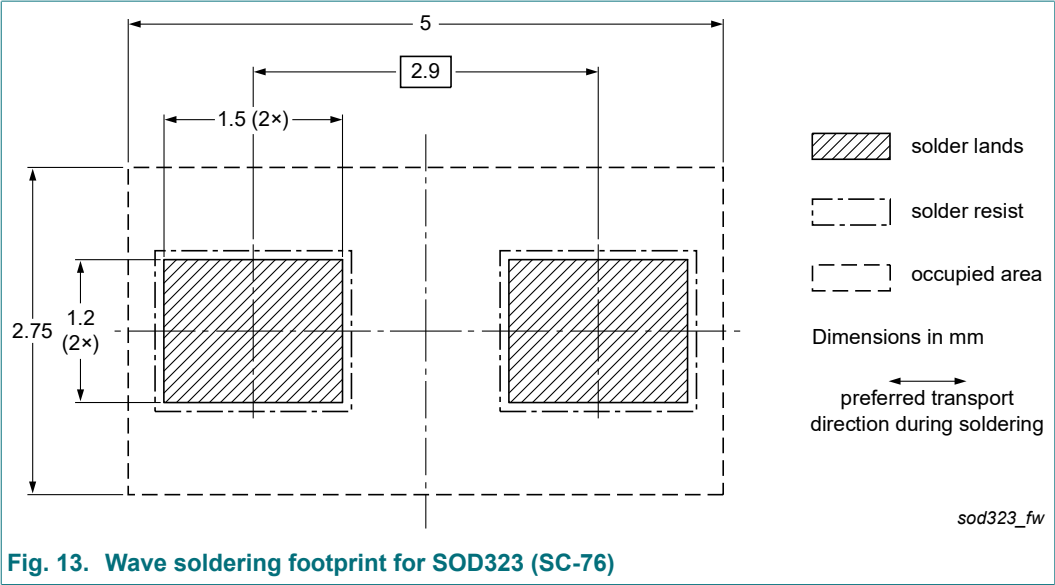
Fig. 10. Reverse current as a function of reverse voltage; typical values (BZX384-A27 to BZX384-A75)

11. Package outline



12. Soldering





13. Revision history

Table 10. Revision history

| Document ID      | Release date | Data sheet status  | Change notice | Supersedes |
|------------------|--------------|--------------------|---------------|------------|
| BZX384-A_SER v.1 | 20220203     | 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.                                     |

- [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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