



# BZT52H-Q series

## Voltage regulator diodes

Rev. 1 — 4 October 2021

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:  $\leq 830$  mW
- Three tolerance series:  $\pm 1\%$ ,  $\pm 2\%$  and approximately  $\pm 5\%$
- 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	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]	-	-	375	mW
			[3]	-	-	830	mW


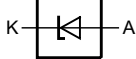
[1] Pulse test:  $t_p \leq 300$   $\mu$ s;  $\delta \leq 0.02$ .

[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 cm<sup>2</sup>.

## 5. Pinning information

Table 2. Pinning

Pin	Symbol	Description		Simplified outline	Graphic symbol
1	K	cathode	[1]		 006aaa152
2	A	anode			

[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  $\pm 1\%$ ,  $\pm 2\%$  and  $\pm 5\%$  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	B3
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	B8
BZT52H-A4V3-Q	FZ	BZT52H-B4V3-Q	DJ	BZT52H-C4V3-Q	B9
BZT52H-A4V7-Q	G1	BZT52H-B4V7-Q	DK	BZT52H-C4V7-Q	BA
BZT52H-A5V1-Q	G2	BZT52H-B5V1-Q	DL	BZT52H-C5V1-Q	BB
BZT52H-A5V6-Q	G3	BZT52H-B5V6-Q	DM	BZT52H-C5V6-Q	BC
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	BH
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	BM
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	BT
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	BX
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
$I_F$	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	$T_{amb} \leq 25\text{ °C}$	[2] -	375	mW
			[3] -	830	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.

[3] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for cathode  $1\text{ cm}^2$ .

## 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] -	-	330	K/W
			[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  $1\text{ cm}^2$ .

[3] Soldering point of cathode tab.

## 10. Characteristics

**Table 7. Characteristics**

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

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

[1] Pulse test:  $t_p \leq 300\text{ }\mu\text{s}$ ;  $\delta \leq 0.02$ .

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

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

BZT52H -xxx	Sel	Working voltage $V_Z$ (V) $I_Z = 5\text{ mA}$		Maximum differential resistance $r_{\text{dif}}$ ( $\Omega$ )		Reverse current $I_R$ ( $\mu\text{A}$ )		Temperature coefficient $S_Z$ (mV/K) $I_Z = 5\text{ mA}$		Diode capacitance $C_d$ (pF) [1]	Non-repetitive peak reverse current $I_{ZSM}$ (A) [2]
		Min	Max	$I_Z = 1\text{ mA}$	$I_Z = 5\text{ mA}$	Max	$V_R$ (V)	Min	Max	Max	Max
2V4-Q	A	2.37	2.43	400	85	50	1	-3.5	0.0	450	6.0
	B	2.35	2.45								
	C	2.20	2.60								
2V7-Q	A	2.67	2.73	500	83	20	1	-3.5	0.0	450	6.0
	B	2.65	2.75								
	C	2.50	2.90								
3V0-Q	A	2.97	3.03	500	95	10	1	-3.5	0.0	450	6.0
	B	2.94	3.06								
	C	2.80	3.20								
3V3-Q	A	3.26	3.34	500	95	5	1	-3.5	0.0	450	6.0
	B	3.23	3.37								
	C	3.10	3.50								
3V6-Q	A	3.56	3.64	500	95	5	1	-3.5	0.0	450	6.0
	B	3.53	3.67								
	C	3.40	3.80								
3V9-Q	A	3.86	3.94	500	95	3	1	-3.5	0.0	450	6.0
	B	3.82	3.98								
	C	3.70	4.10								
4V3-Q	A	4.25	4.35	500	95	3	1	-3.5	0.0	450	6.0
	B	4.21	4.39								
	C	4.00	4.60								
4V7-Q	A	4.65	4.75	500	78	3	2	-3.5	0.2	300	6.0
	B	4.61	4.79								
	C	4.40	5.00								
5V1-Q	A	5.04	5.16	480	60	2	2	-2.7	1.2	300	6.0
	B	5.00	5.20								
	C	4.80	5.40								
5V6-Q	A	5.54	5.66	400	40	1	2	-2.0	2.5	300	6.0
	B	5.49	5.71								
	C	5.20	6.00								
6V2-Q	A	6.13	6.27	150	10	3	4	0.4	3.7	200	6.0
	B	6.08	6.32								
	C	5.80	6.60								
6V8-Q	A	6.73	6.87	80	8	2	4	1.2	4.5	200	6.0
	B	6.66	6.94								
	C	6.40	7.20								
7V5-Q	A	7.42	7.58	80	10	1	5	2.5	5.3	150	4.0
	B	7.35	7.65								
	C	7.00	7.90								

BZT52H -xxx	Sel	Working voltage $V_Z$ (V) $I_Z = 5$ mA		Maximum differential resistance $r_{dif}$ ( $\Omega$ )		Reverse current $I_R$ ( $\mu$ A)		Temperature coefficient $S_Z$ (mV/K) $I_Z = 5$ 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
8V2-Q	A	8.11	8.29	80	10	0.7	5	3.2	6.2	150	4.0
	B	8.04	8.36								
	C	7.70	8.70								
9V1-Q	A	9.00	9.20	100	10	0.5	6	3.8	7.0	150	3.0
	B	8.92	9.28								
	C	8.50	9.60								
10-Q	A	9.90	10.10	70	10	0.2	7	4.5	8.0	90	3.0
	B	9.80	10.20								
	C	9.40	10.60								
11-Q	A	10.89	11.11	70	10	0.1	8	5.4	9.0	85	2.5
	B	10.80	11.20								
	C	10.40	11.60								
12-Q	A	11.88	12.12	90	10	0.1	8	6.0	10.0	85	2.5
	B	11.80	12.20								
	C	11.40	12.70								
13-Q	A	12.87	13.13	110	10	0.1	8	7.0	11.0	80	2.5
	B	12.70	13.30								
	C	12.40	14.10								
15-Q	A	14.85	15.15	110	15	0.05	10.5	9.2	13.0	75	2.0
	B	14.70	15.30								
	C	13.80	15.60								
16-Q	A	15.84	16.16	170	20	0.05	11.2	10.4	14.0	75	1.5
	B	15.70	16.30								
	C	15.30	17.10								
18-Q	A	17.82	18.18	170	20	0.05	12.6	12.4	16.0	70	1.5
	B	17.60	18.40								
	C	16.80	19.10								
20-Q	A	19.80	20.20	220	20	0.05	14	14.4	18.0	60	1.5
	B	19.60	20.40								
	C	18.80	21.20								
22-Q	A	21.78	22.22	220	25	0.05	15.4	16.4	20.0	60	1.25
	B	21.60	22.40								
	C	20.80	23.30								
24-Q	A	23.76	24.24	220	30	0.05	16.8	18.4	22.0	55	1.25
	B	23.50	24.50								
	C	22.80	25.60								

[1]  $f = 1$  MHz;  $V_R = 0$  V

[2]  $t_p = 100$   $\mu$ s;  $T_{amb} = 25$  °C

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

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

BZT52H-xxx	Sel	Working voltage $V_Z$ (V) $I_Z = 2\text{ mA}$		Maximum differential resistance $r_{dif}$ ( $\Omega$ )		Reverse current $I_R$ ( $\mu\text{A}$ )		Temperature coefficient $S_Z$ (mV/K) $I_Z = 2\text{ mA}$		Diode capacitance $C_d$ (pF) [1]	Non-repetitive peak reverse current $I_{ZSM}$ (A) [2]
		Min	Max	$I_Z = 1\text{ mA}$	$I_Z = 5\text{ mA}$	Max	$V_R$ (V)	Min	Max	Max	Max
27-Q	A	26.73	27.27	250	40	0.05	18.9	21.4	25.3	50	1.0
	B	26.50	27.50								
	C	25.10	28.90								
30-Q	A	29.70	30.30	250	40	0.05	21	24.4	29.4	50	1.0
	B	29.40	30.60								
	C	28.00	32.00								
33-Q	A	32.67	33.33	250	40	0.05	23.1	27.4	33.4	45	0.9
	B	32.30	33.70								
	C	31.00	35.00								
36-Q	A	35.64	36.36	250	60	0.05	25.2	30.4	37.4	45	0.8
	B	35.30	36.70								
	C	34.00	38.00								
39-Q	A	38.61	39.39	300	75	0.05	27.3	33.4	41.2	45	0.7
	B	38.20	39.80								
	C	37.00	41.00								
43-Q	A	42.57	43.43	325	80	0.05	30.1	37.6	46.6	40	0.6
	B	42.10	43.90								
	C	40.00	46.00								
47-Q	A	46.53	47.47	325	90	0.05	32.9	42.0	51.8	40	0.5
	B	46.10	47.90								
	C	44.00	50.00								
51-Q	A	50.49	51.51	350	100	0.05	35.7	46.6	57.2	40	0.4
	B	50.00	52.00								
	C	48.00	54.00								

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

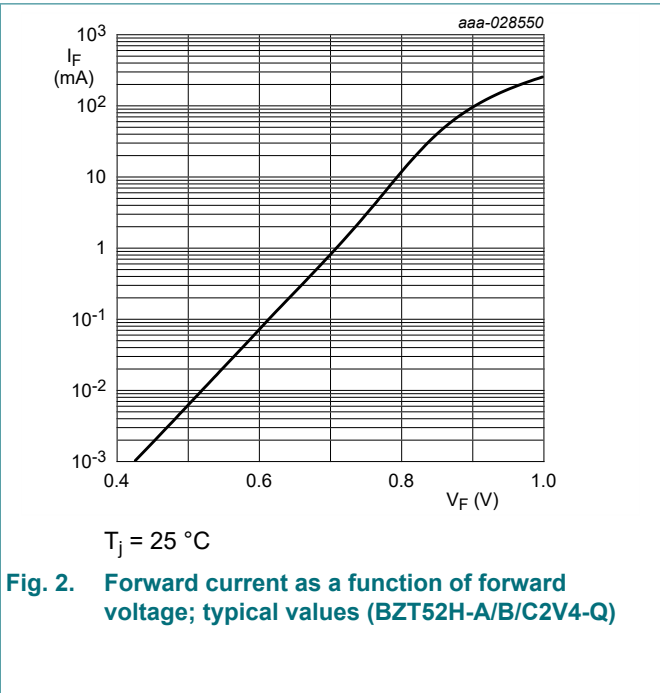
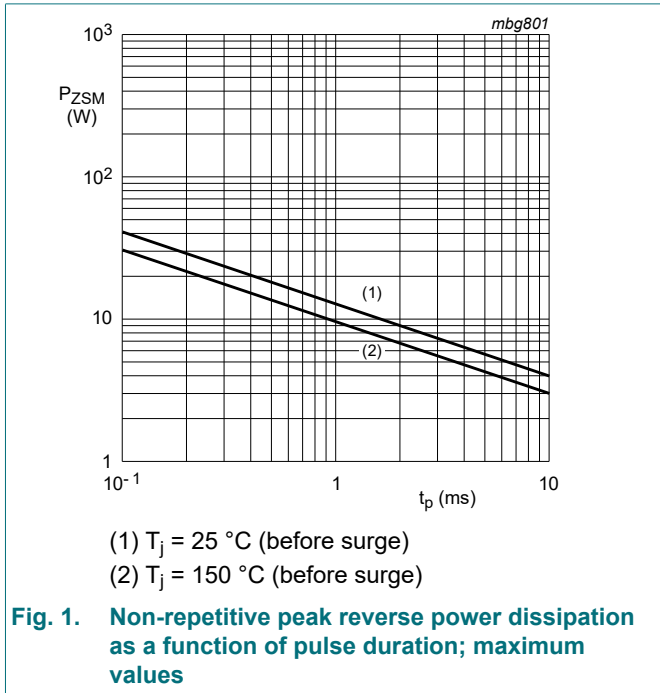
Table 10. Characteristics per type; BZT52H-A56-Q to BZT52H-C75-Q

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

BZT52H-xxx	Sel	Working voltage $V_Z$ (V) $I_Z = 2\text{ mA}$		Maximum differential resistance $r_{dif}$ ( $\Omega$ )		Reverse current $I_R$ ( $\mu\text{A}$ )		Temperature coefficient $S_Z$ (mV/K) $I_Z = 2\text{ mA}$		Diode capacitance $C_d$ (pF) [1]	Non-repetitive peak reverse current $I_{ZSM}$ (A) [2]
		Min	Max	$I_Z = 0.5\text{ mA}$	$I_Z = 2\text{ mA}$	Max	$V_R$ (V)	Min	Max	Max	Max
56-Q	A	55.44	56.56	375	120	0.05	39.2	52.2	63.8	40	0.3
	B	54.90	57.10								
	C	52.00	60.00								
62-Q	A	61.38	62.62	400	140	0.05	43.4	58.8	71.6	35	0.3
	B	60.80	63.20								
	C	58.00	66.00								
68-Q	A	67.32	68.68	400	160	0.05	47.6	65.6	79.8	35	0.25
	B	66.60	69.40								
	C	64.00	72.00								
75-Q	A	74.25	75.75	400	175	0.05	52.5	73.4	88.6	35	0.20
	B	73.50	76.50								
	C	70.00	79.00								

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

[2]  $t_p = 100\text{ }\mu\text{s}$ ;  $T_{amb} = 25\text{ °C}$ .





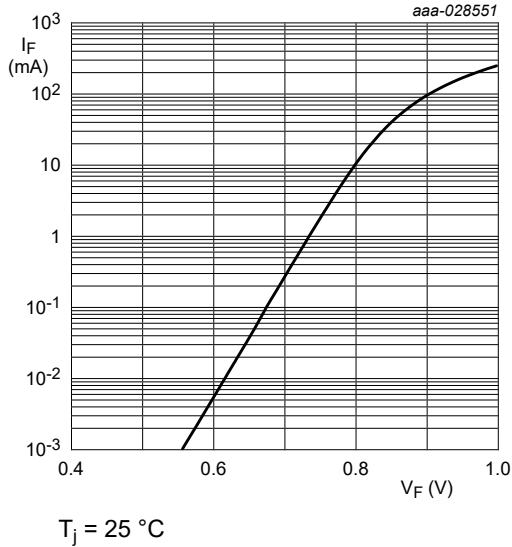


Fig. 3. Forward current as a function of forward voltage; typical values (BZT52H-A/B/C6V8-Q)

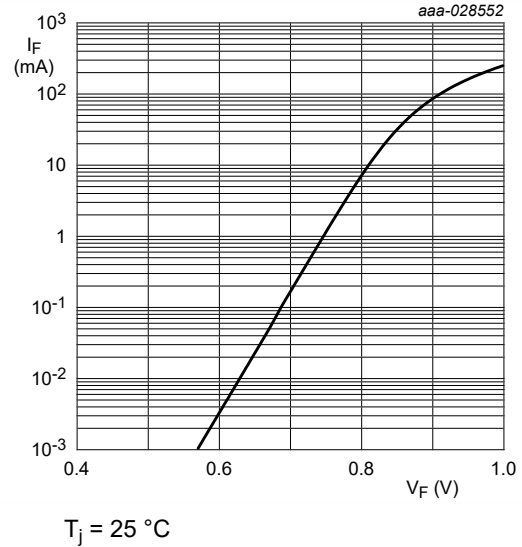


Fig. 4. Forward current as a function of forward voltage; typical values (BZT52H-A/B/C7V5-Q)

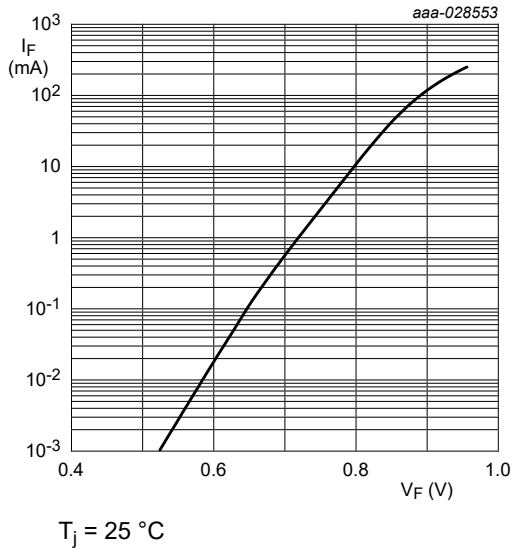


Fig. 5. Forward current as a function of forward voltage; typical values (BZT52H-A/B/C75-Q)

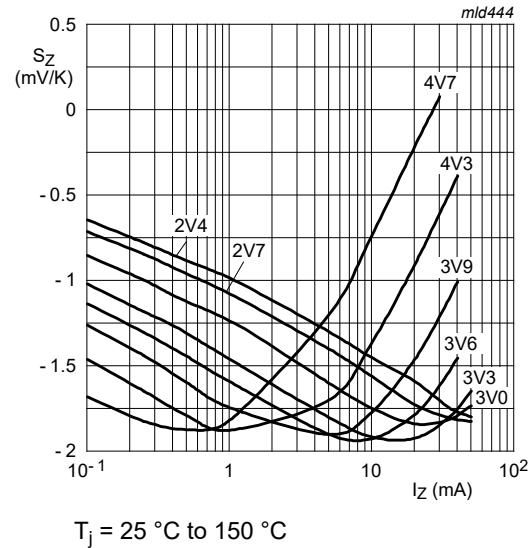
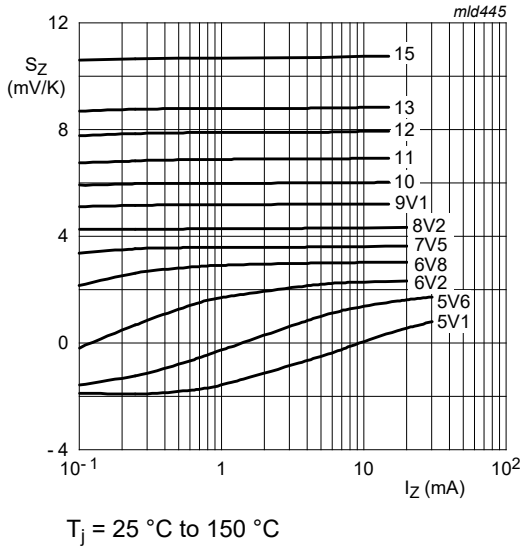
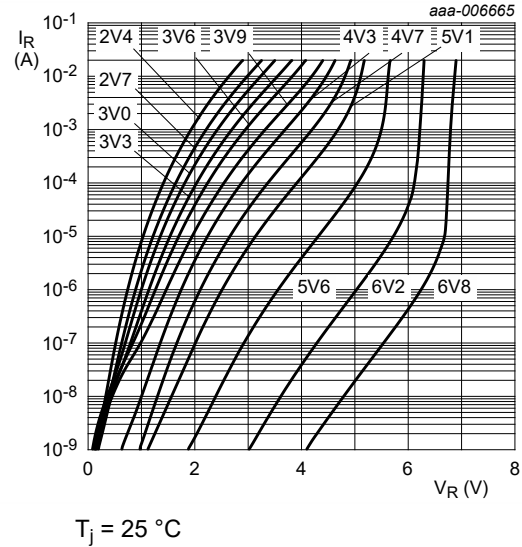


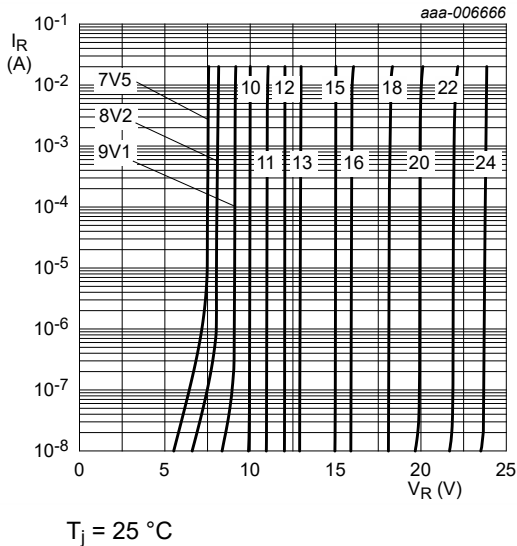
Fig. 6. Temperature coefficient as a function of working current; typical values (BZT52H-A/B/C2V4-Q to BZT52H-A/B/C4V7-Q)



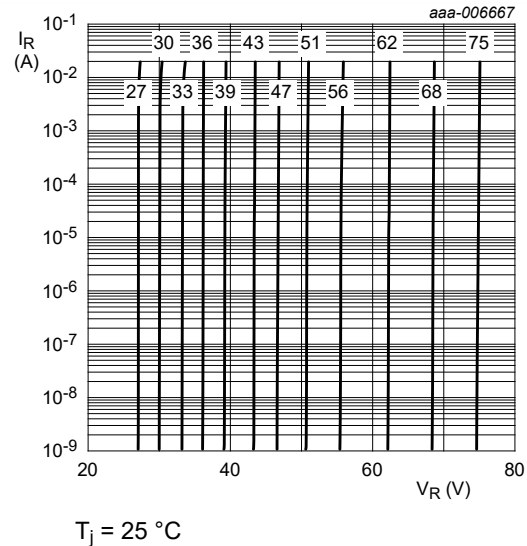
**Fig. 7. Temperature coefficient as a function of working current; typical values (BZT52H-A/B/C5V1-Q to BZT52H-A/B/C15-Q)**



**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)**



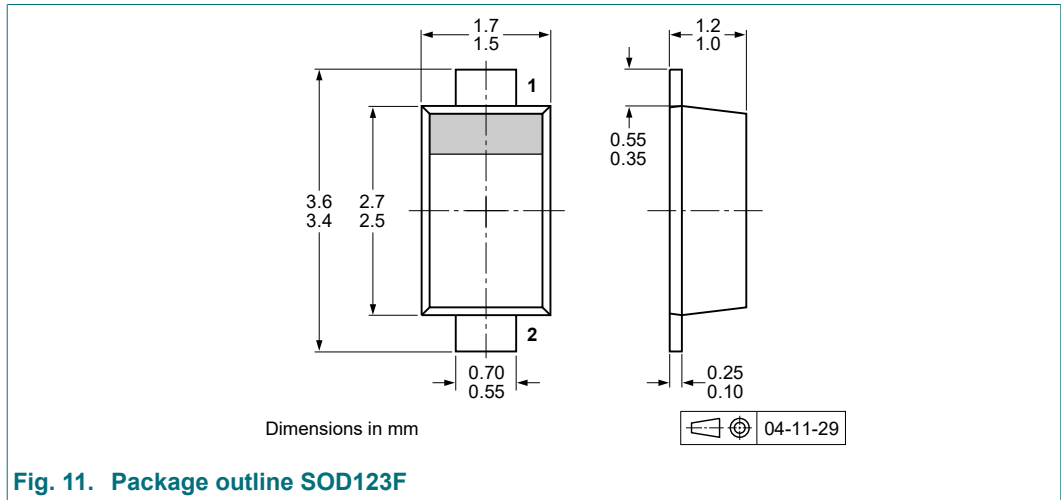
**Fig. 10. Reverse current as a function of reverse voltage; typical values (BZT52H-A/B/C27-Q to BZT52H-A/B/C75-Q)**

## 11. Test information

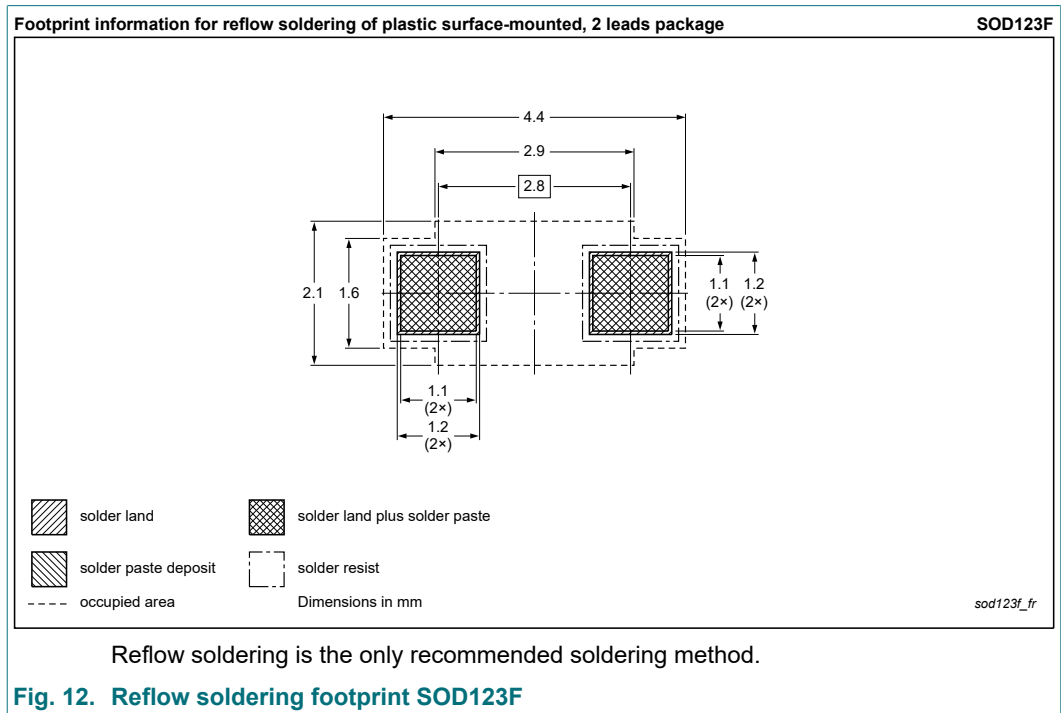
### Quality information

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.

## 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.

- [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".
- [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 <https://www.nexperia.com>.

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