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

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	K [] A
2	А	anode			006aaa152

^[1] The marking bar indicates the cathode.

6. Ordering information

Table 3. Ordering information

Type number	Package		
	Name	Description	Version
BZT52H 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	FT	BZT52H-B2V4	DC	BZT52H-C2V4	В3
BZT52H-A2V7	FU	BZT52H-B2V7	DD	BZT52H-C2V7	B4
BZT52H-A3V0	FV	BZT52H-B3V0	DE	BZT52H-C3V0	B5
BZT52H-A3V3	FW	BZT52H-B3V3	DF	BZT52H-C3V3	B6
BZT52H-A3V6	FX	BZT52H-B3V6	DG	BZT52H-C3V6	B7
BZT52H-A3V9	FY	BZT52H-B3V9	DH	BZT52H-C3V9	B8
BZT52H-A4V3	FZ	BZT52H-B4V3	DJ	BZT52H-C4V3	B9
BZT52H-A4V7	G1	BZT52H-B4V7	DK	BZT52H-C4V7	ВА
BZT52H-A5V1	G2	BZT52H-B5V1	DL	BZT52H-C5V1	ВВ
BZT52H-A5V6	G3	BZT52H-B5V6	DM	BZT52H-C5V6	ВС
BZT52H-A6V2	G4	BZT52H-B6V2	DN	BZT52H-C6V2	BD
BZT52H-A6V8	G5	BZT52H-B6V8	DP	BZT52H-C6V8	BE
BZT52H-A7V5	G6	BZT52H-B7V5	DQ	BZT52H-C7V5	BF
BZT52H-A8V2	G7	BZT52H-B8V2	DR	BZT52H-C8V2	BG
BZT52H-A9V1	G8	BZT52H-B9V1	DS	BZT52H-C9V1	ВН
BZT52H-A10	G9	BZT52H-B10	DT	BZT52H-C10	BJ
BZT52H-A11	GA	BZT52H-B11	DU	BZT52H-C11	BK
BZT52H-A12	GB	BZT52H-B12	DV	BZT52H-C12	BL
BZT52H-A13	GC	BZT52H-B13	DW	BZT52H-C13	ВМ
BZT52H-A15	GD	BZT52H-B15	DX	BZT52H-C15	BN
BZT52H-A16	GE	BZT52H-B16	DY	BZT52H-C16	BP
BZT52H-A18	GF	BZT52H-B18	DZ	BZT52H-C18	BQ
BZT52H-A20	GG	BZT52H-B20	E1	BZT52H-C20	BR
BZT52H-A22	GH	BZT52H-B22	E2	BZT52H-C22	BS
BZT52H-A24	GJ	BZT52H-B24	E3	BZT52H-C24	ВТ
BZT52H-A27	GK	BZT52H-B27	E4	BZT52H-C27	BU
BZT52H-A30	GL	BZT52H-B30	E5	BZT52H-C30	BV
BZT52H-A33	GM	BZT52H-B33	E6	BZT52H-C33	BW
BZT52H-A36	GN	BZT52H-B36	E7	BZT52H-C36	BX
BZT52H-A39	GP	BZT52H-B39	E8	BZT52H-C39	BY
BZT52H-A43	GY	BZT52H-B43	E9	BZT52H-C43	BZ
BZT52H-A47	GR	BZT52H-B47	EA	BZT52H-C47	C1
BZT52H-A51	GS	BZT52H-B51	EB	BZT52H-C51	C2
BZT52H-A56	GT	BZT52H-B56	EC	BZT52H-C56	C3
BZT52H-A62	GU	BZT52H-B62	ED	BZT52H-C62	C4
BZT52H-A68	GV	BZT52H-B68	EE	BZT52H-C68	C5
BZT52H-A75	GW	BZT52H-B75	EF	BZT52H-C75	C6

Voltage regulator diodes

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} ≤ 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

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.

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: $t_p \le 300 \ \mu s$; $\delta \le 0.02$.

 ^[1] t_p = 100 μs; square wave; T_j = 25 °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.

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

Soldering point of cathode tab.

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

 T_j = 25 °C unless otherwise specified.

BZT52H Sel -xxx		el Working voltage V _Z (V) I _Z = 5 mA		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	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	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	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	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	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	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	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	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	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	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	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	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	Α	7.42	7.58		10	1	5	2.5	5.3	150	4.0	
	В	7.35 7.65 7.00 7.90										
	С											

Voltage regulator diodes

BZT52H -xxx	Sel	Working voltage V _Z (V) I _Z = 5 mA		$\begin{array}{l} \text{Maximum differential} \\ \text{resistance} \\ \text{r}_{\text{dif}}\left(\Omega\right) \end{array}$		Revers curren I _R (µA)	ıt	Tempo 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	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								
9V1	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								
10	Α	9.90	10.10	70	10	0.2	7	4.5	8.0	90	3.0
	В	9.80	10.20								
	С	9.40	10.60								
11	А	10.89	11.11	70	10	0.1	8	5.4	9.0	85	2.5
	В	10.80	11.20								
	С	10.40	11.60								
12	Α	11.88	12.12	90	10	0.1	8	6.0	10.0	85	2.5
	В	11.80	12.20								
	С	11.40	12.70								
13	Α	12.87	13.13	110	10	0.1	8	7.0	11.0	80	2.5
	В	12.70	13.30								
	С	12.40	14.10								
15	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								
16	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								
18	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	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	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	Α	23.76	24.24	220	30	0.05	16.8	18.4	22.0	55	1.25
	В	23.50	24.50								
	С	22.80	25.60								

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

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

 T_i = 25 °C unless otherwise specified.

BZT52H -xxx	Sel	Working voltage V _Z (V) I _Z = 2 mA		$\begin{array}{c} \text{Maximum differential} \\ \text{resistance} \\ \text{r}_{\text{dif}}\left(\Omega\right) \end{array}$		Revers curren I _R (µA)	t	Tempo coeffic S _Z (m ¹ I _Z = 2	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
27	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	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	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	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	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	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	Α	46.53	47.47	325	90	0.05	32.9	42.0	51.8	40	0.5
	В	46.10	47.90								
	С	44.00	50.00	1							
51	Α	50.49	51.51	350	100	0.05	35.7	46.6	57.2	40	0.4
	В	50.00	52.00	-	100				10.0		
	С	48.00	54.00								

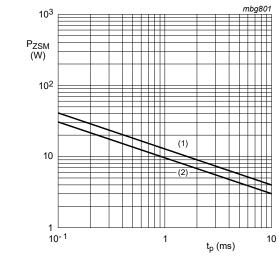
^[1] $f = 1 \text{ MHz}; V_R = 0 \text{ V}$ [2] $t_p = 100 \text{ } \mu\text{s}; T_{amb} = 25 \text{ }^{\circ}\text{C}.$

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

 T_i = 25 °C unless otherwise specified.

BZT52H -xxx	Sel	$ \begin{array}{lll} \text{voltage} & \text{resistance} \\ \text{V}_{\text{Z}}\left(\text{V}\right) & \text{r}_{\text{dif}}\left(\Omega\right) \\ \text{I}_{\text{Z}} = 2 \text{ mA} \end{array} $		Revers curren I _R (µA)	ıt	Tempo coeffi S _Z (m I _Z = 2	V/K)	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	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	Α	61.38	62.62	400 140	140	0.05	43.4	58.8	71.6	35	0.3
	В	60.80	63.20					65.6	.6 79.8	35	
	С	58.00	66.00								
68	Α	67.32	68.68	400	160	0.05	0.05 47.6				
	В	66.60	69.40								
	С	64.00	72.00	1							
75	Α	74.25	75.75	400	175	0.05	52.5	73.4	88.6	35	0.20
	В	73.50	76.50								
	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_i = 25 °C (before surge)
- (2) T_i = 150 °C (before surge)

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

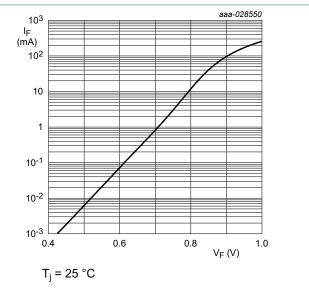


Fig. 2. Forward current as a function of forward voltage; typical values (BZT52H-A/B/C2V4)

Voltage regulator diodes

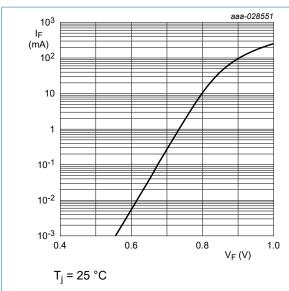


Fig. 3. Forward current as a function of forward voltage; typical values (BZT52H-A/B/C6V8)

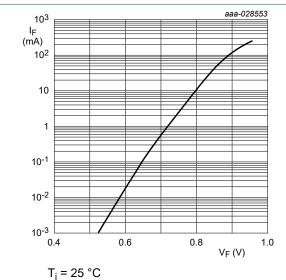


Fig. 5. Forward current as a function of forward voltage; typical values (BZT52H-A/B/C75)

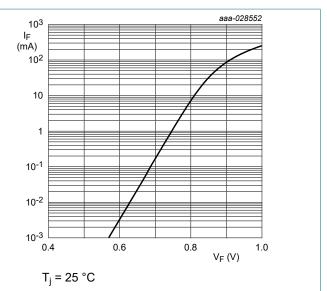


Fig. 4. Forward current as a function of forward voltage; typical values (BZT52H-A/B/C7V5)

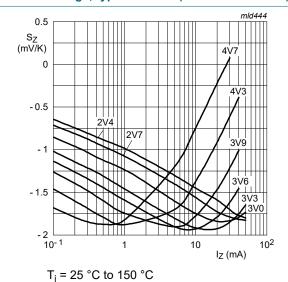


Fig. 6. Temperature coefficient as a function of working current; typical values (BZT52H-A/B/C2V4 to BZT52H-A/B/C4V7)

Voltage regulator diodes

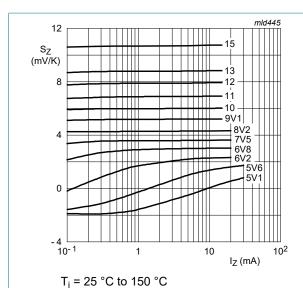


Fig. 7. Temperature coefficient as a function of working current; typical values (BZT52H-A/B/C5V1 to BZT52H-A/B/C15)

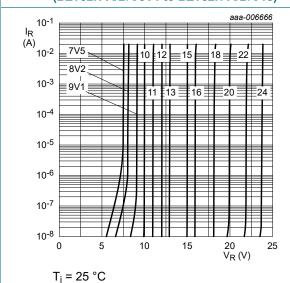


Fig. 9. Reverse current as a function of reverse voltage; typical values (BZT52H-A/B/C7V5 to BZT52H-A/B/C24)

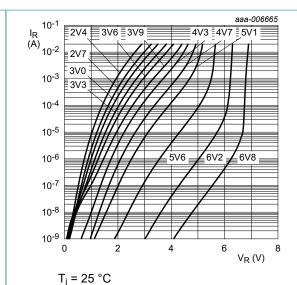


Fig. 8. Reverse current as a function of reverse voltage; typical values (BZT52H-A/B/C6V8)

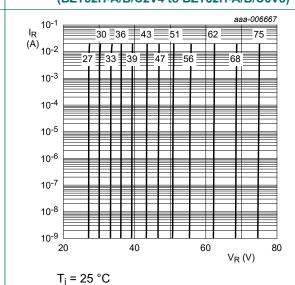
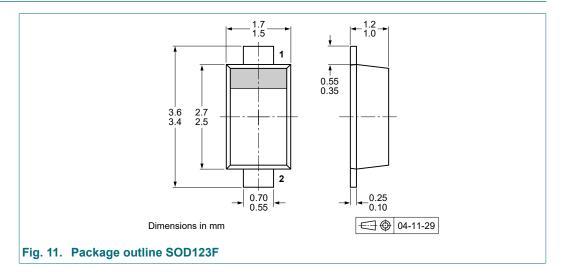


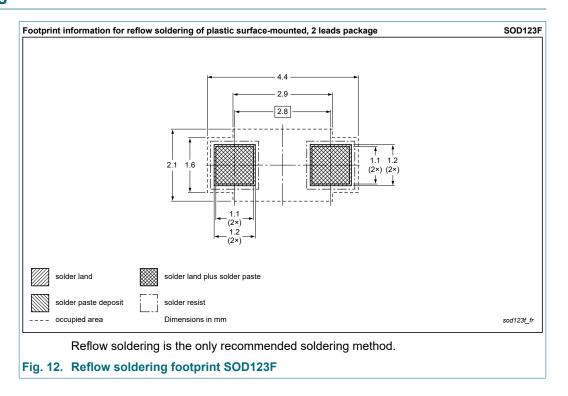
Fig. 10. Reverse current as a function of reverse voltage; typical values (BZT52H-A/B/C27 to BZT52H-A/B/C75)

Voltage regulator diodes

11. Package outline



12. Soldering



Voltage regulator diodes

13. Revision history

Table 11. Revision history

Table 11. Revision ins	tory			
Document ID	Release date	Data sheet status	Change notice	Supersedes
BZT52H_SER v.7	20230101	Product data sheet	-	BZT52H_SER v.6
Modifications:	Products cha	elections added nged to non-automotive qu Q) product alternatives.	alification. Please refe	r to nexperia.com for
BZT52H_SER v.6	20220207	Product data sheet	-	BZT52H_SER v.5
BZT52H_SER v.5	20201130	Product data sheet	-	BZT52H_SER v.4
BZT52H_SER v.4	20190121	Product data sheet	-	BZT52H_SER v.3
BZT52H_SER v.3	20091115	Product data sheet	-	BZT52H_SER v.2
BZT52H_SER v.2	20091115	Product data sheet	-	BZT52H_SER v.1
BZT52H_SER v.1	20051222	Product data sheet	-	-

Voltage regulator diodes

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.

- Please consult the most recently issued document before initiating or completing a design.
- 2] The term 'short data sheet' is explained in section "Definitions".
- 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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13 / 14

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	3
8.	Limiting values	4
9.	Thermal characteristics	4
10.	. Characteristics	4
11.	Package outline	11
12.	. Soldering	11
13.	. Revision history	12
14.	. Legal information	13

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