BZT52H series

Voltage regulator diodes

Rev. 7 — 1 January 2023 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	Typ	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 ≤ 300 µs; δ ≤ 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^2.

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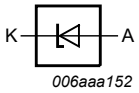
5. Pinning information

Table 2. Pinning

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

[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.

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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	B3
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	BA
BZT52H-A5V1	G2	BZT52H-B5V1	DL	BZT52H-C5V1	BB
BZT52H-A5V6	G3	BZT52H-B5V6	DM	BZT52H-C5V6	BC
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	BH
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	BM
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	BT
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

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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	$T_{amb} \leq 25$ °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 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.
[3] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for cathode 1 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 cm^2.
[3] Soldering point of cathode tab.

10. Characteristics

Table 7. Characteristics

T_j = 25 °C unless otherwise specified.

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

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

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

T_j = 25 °C unless otherwise specified.

BZT52H -xxx	Sel	Working voltage V_Z (V) I_Z = 5 mA		Maximum differential resistance r_{dif} (Ω)		Reverse current I_R (μA)		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
2V4	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	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	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	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	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	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	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	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	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	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	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	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	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								

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BZT52H -xxx	Sel	Working voltage V_Z (V) I_Z = 5 mA		Maximum differential resistance r_{dif} (Ω)		Reverse current I_R (μA)		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	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	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	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	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	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	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	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	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	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	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	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	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 μs; T_{amb} = 25 °C

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

T_j = 25 °C unless otherwise specified.

BZT52H -xxx	Sel	Working voltage V_Z (V) I_Z = 2 mA		Maximum differential resistance r_{dif} (Ω)		Reverse current I_R (μA)		Temperature coefficient S_Z (mV/K) I_Z = 2 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	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	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	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	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	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	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	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	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 MHz; V_R = 0 V
[2] t_p = 100 μs; T_{amb} = 25 °C.

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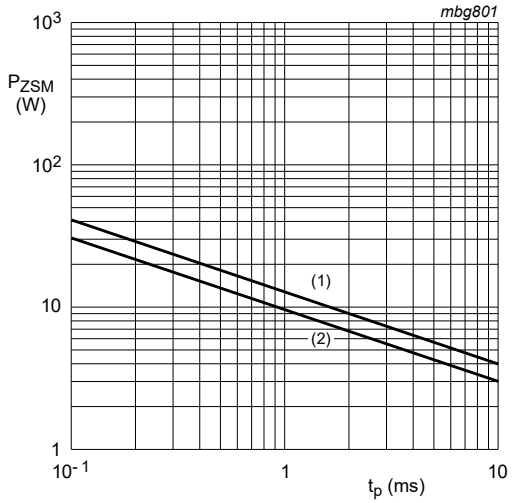
Table 10. Characteristics per type; BZT52H-A56 to BZT52H-C75

T_j = 25 °C unless otherwise specified.

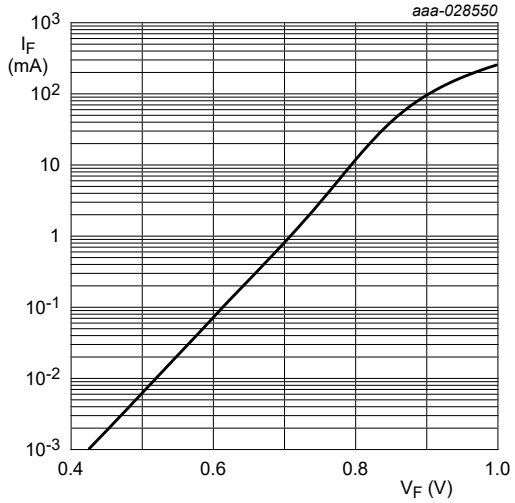
BZT52H -xxx	Sel	Working voltage V_Z (V) I_Z = 2 mA		Maximum differential resistance r_{dif} (Ω)		Reverse current I_R (μA)		Temperature coefficient S_Z (mV/K) I_Z = 2 mA		Diode capacitance C_d (pF) [1]	Non-repetitive peak reverse current I_{ZSM} (A) [2]
		Min	Max	I_Z = 0.5 mA	I_Z = 2 mA	Max	V_R (V)	Min	Max	Max	Max
56	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	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	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	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 MHz; V_R = 0 V
[2] t_p = 100 μs; T_{amb} = 25 °C.



(1) T_j = 25 °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



T_j = 25 °C

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

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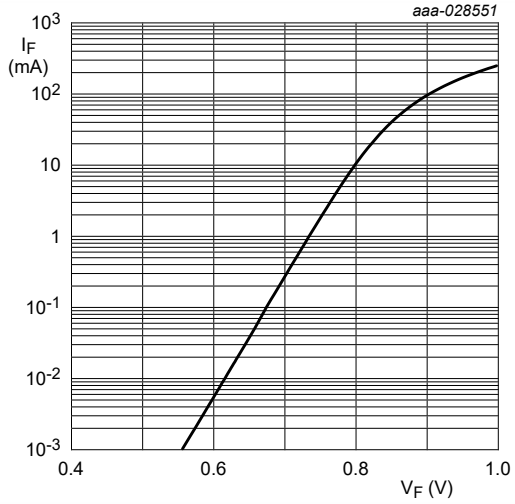
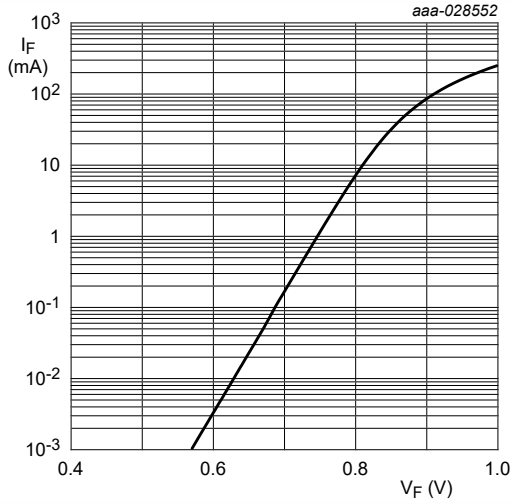


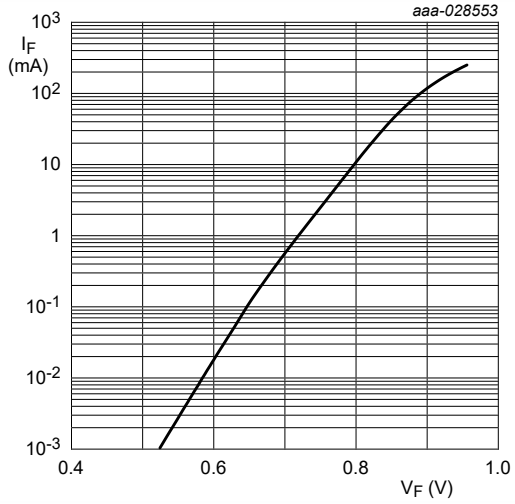
T_j = 25 °C

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



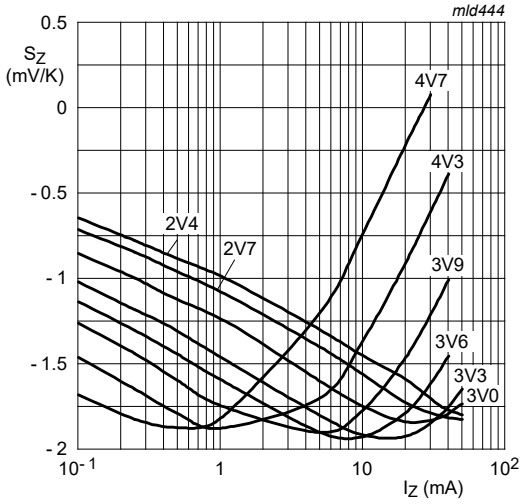
T_j = 25 °C

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



T_j = 25 °C

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



T_j = 25 °C to 150 °C

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

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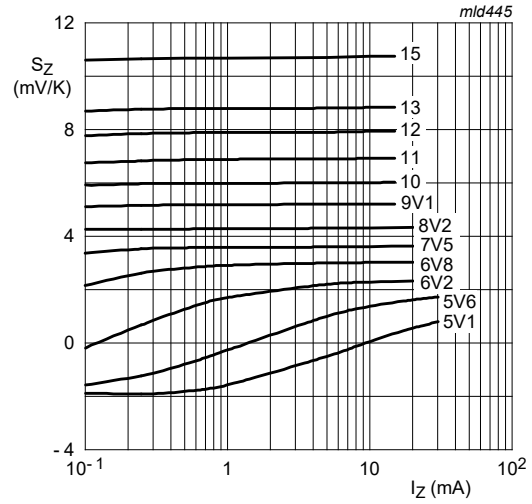
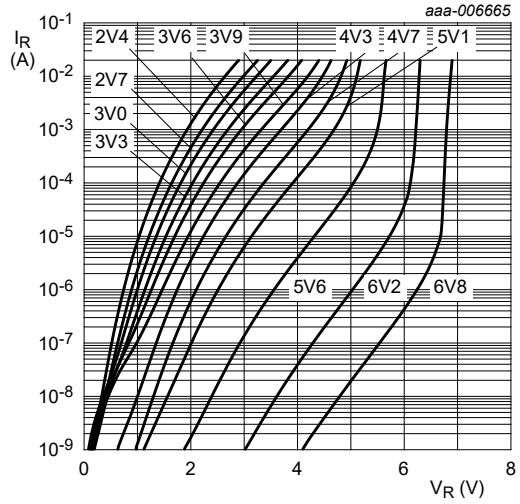


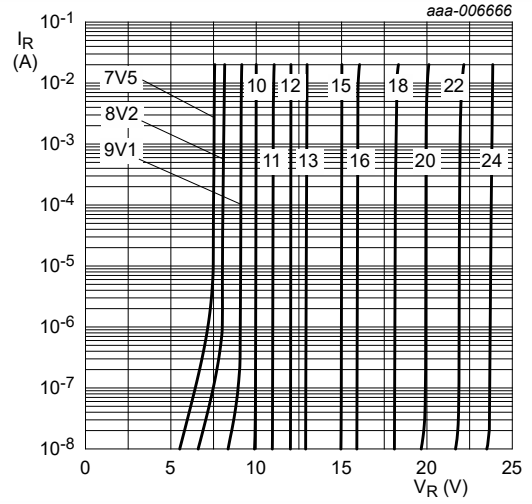
T_j = 25 °C to 150 °C

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



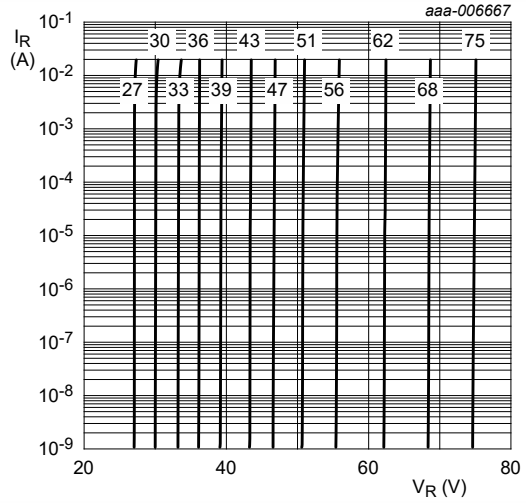
T_j = 25 °C

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



T_j = 25 °C

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



T_j = 25 °C

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

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11. Package outline

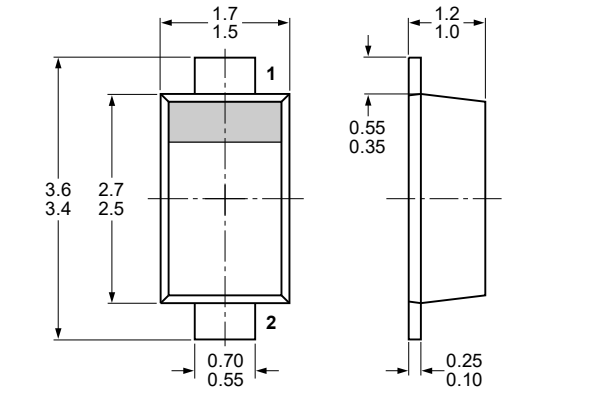
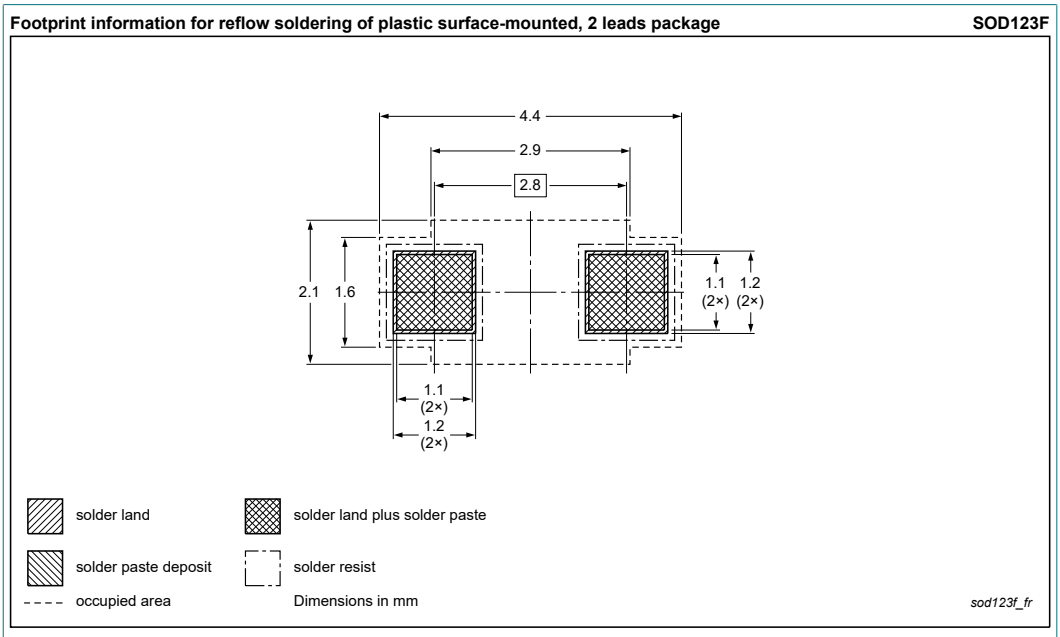


Fig. 11. Package outline SOD123F

12. Soldering



Reflow soldering is the only recommended soldering method.

Fig. 12. Reflow soldering footprint SOD123F

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13. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
BZT52H_SER v.7	20230101	Product data sheet	-	BZT52H_SER v.6
Modifications:	• BZT52H-A selections added • Products changed to non-automotive qualification. Please refer to nexperia.com for automotive (-Q) product alternatives.			
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	-	-

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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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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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