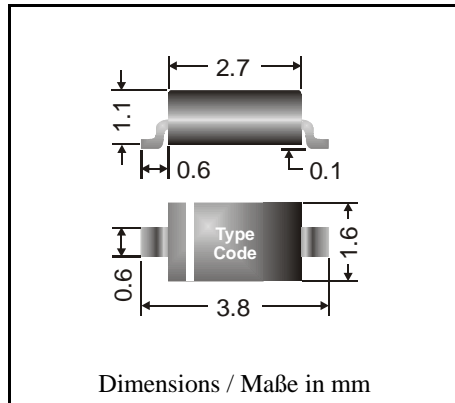


Surface mount Zener Diodes Zener-Dioden für die Oberflächenmontage

Version 2004-07-26



Power dissipation – Verlustleistung	410 mW
Nominal Zener voltage Nominale Zener-Spannung	2.4...56 V
Plastic case Kunststoffgehäuse	SOD-123
Weight approx. – Gewicht ca.	0.01 g
Standard packaging taped and reeled Standard Lieferform gegurtet auf Rolle	

Standard Zener voltage tolerance is graded to the international E 24 (~ 5%) standard.
Other voltage tolerances and higher Zener voltages on request.
Die Toleranz der Zener-Spannung ist in der Standard-Ausführung gestuft nach der internationalen Reihe E 24 (~ 5%). Andere Toleranzen und höhere Spannungen auf Anfrage.

Maximum ratings and Characteristics

Grenz- und Kennwerte

			BZT52C2V4 ... C56
Power dissipation Verlustleistung	$T_A = 50^\circ\text{C}$	I_{FAV}	410 mW ¹⁾
Junction temperature – Sperrschichttemperatur		T_j	150°C
Storage temperature – Lagerungstemperatur		T_S	- 55...+ 150°C
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft		R_{thA}	400 K/W ¹⁾

Zener voltages see table on next page – Zener-Spannungen siehe Tabelle auf der nächsten Seite

BZT52C2V4 = WX	Marking – Stempelung		BZT52C27 = WP
BZT52C2V7 = W1	BZT52C5V6 = W9	BZT52C12 = WH	BZT52C30 = WQ
BZT52C3V0 = W2	BZT52C6V2 = WA	BZT52C13 = WI	BZT52C33 = WR
BZT52C3V3 = W3	BZT52C6V8 = WB	BZT52C15 = WJ	BZT52C36 = WS
BZT52C3V6 = W4	BZT52C7V5 = WC	BZT52C16 = WK	BZT52C39 = WT
BZT52C3V9 = W5	BZT52C8V2 = WD	BZT52C18 = WL	BZT52C43 = WU
BZT52C4V3 = W6	BZT52C9V1 = WE	BZT52C20 = WM	BZT52C47 = WV
BZT52C4V7 = W7	BZT52C10 = WF	BZT52C22 = WN	BZT52C51 = WW
BZT52C5V1 = W8	BZT52C11 = WG	BZT52C24 = WO	BZT52C56 = XW

¹⁾ Mounted on P.C. board with 25 mm² copper pads at each terminal
Montage auf Leiterplatte mit 25 mm² Kupferbelag (Löt-pad) an jedem Anschluss

²⁾ Tested with pulses $t_p = 5$ ms – Gemessen mit Impulsen $t_p = 5$ ms

Maximum ratings

Grenzwerte

Type Typ	Zener voltage ²⁾ Zener-Spanng. ²⁾ I _Z = 5 mA V _{zmin} [V] V _{zmax}		Dynamic resistance Inhär. diff. Widerstand r _{zj} [Ω] at f = 1 kHz I _Z = 5 mA I _Z = 1 mA		Temp. Coeffiz. of Z-voltage ...der Z-spanng. α _{vZ} 10 ⁻⁴ [°C]	Reverse volt. Sperrspanng. I _R = 100 nA V _R [V]	Z-current ¹⁾ Z-Strom ¹⁾ T _A = 25°C I _{Zmax} [mA]
BZT52C2V4	2,2	2,6	<85	< 600	-9...-6	1 (50μA)	158
BZT52C2V7	2,5	2,9	<85	< 600	-9...-6	1 (10μA)	141
BZT52C3V0	2,8	3,2	<85	< 600	-8...-5	1 (4μA)	128
BZT52C3V3	3,1	3,5	<85	< 600	-8...-5	1 (2μA)	117
BZT52C3V6	3,4	3,8	<85	< 600	-8...-5	1 (2μA)	108
BZT52C3V9	3,7	4,1	<85	< 600	-8...-5	1 (2μA)	100
BZT52C4V3	4,0	4,6	<75	< 600	-6...-3	1 (1μA)	89
BZT52C4V7	4,4	5,0	<60	< 600	-5...+2	1 (0,5μA)	82
BZT52C5V1	4,8	5,4	<35	< 550	-2...+2	1	76
BZT52C5V6	5,2	6,0	<25	< 450	-5...+5	1	68
BZT52C6V2	5,8	6,6	<10	< 200	+3...+6	2	62
BZT52C6V8	6,4	7,2	<8	< 150	+3...+7	3	57
BZT52C7V5	7,0	7,9	(7	< 50	+3...+7	5	52
BZT52C8V2	7,7	8,7	<7	< 50	+3...+8	6	47
BZT52C9V1	8,5	9,6	<10	< 50	+3...+9	6	43
BZT52C10	9,4	10,6	<15	< 70	+3...+10	7	39
BZT52C11	10,4	11,6	<20	< 70	+3...+11	8	35
BZT52C12	11,4	12,7	<20	< 90	+3...+11	9	32
BZT52C13	12,4	14,1	<26	< 110	+3...+11	9	29
BZT52C15	13,8	15,6	<30	< 110	+3...+11	10	26
BZT52C16	15,3	17,1	<40	< 170	+3...+11	11	24
BZT52C18	16,8	19,1	<50	< 170	+3...+11	13	21
BZT52C20	18,8	21,2	<55	< 220	+3...+11	14	19
BZT52C22	20,8	23,3	<55	< 220	+4...+12	16	18
BZT52C24	22,8	25,6	<80	< 220	+4...+12	17	16
BZT52C27	25,1	28,9	<80	< 220	+4...+12	19	14
BZT52C30	28	32	<80	< 220	+4...+12	21	13
BZT52C33	31	35	<80	< 220	+4...+12	23	12
BZT52C36	34	38	<80	< 220	+4...+12	26	11
BZT52C39	37	41	<90	< 500	+4...+12	28	10
BZT52C43	40	46	<90	< 500	+4...+12	30	9
BZT52C47	44	50	<110	< 600	+4...+12	33	8
BZT52C51	48	54	<125	< 700	+4...+12	36	8
BZT52C56	52	60	<135	< 700	+4...+12	39	7

¹⁾ Notes see previous page – Fußnoten siehe vorhergehende Seite

This datasheet has been downloaded from:

www.DatasheetCatalog.com

Datasheets for electronic components.



LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.