Diode, Zener

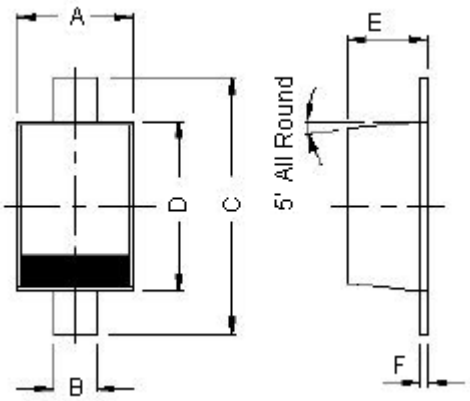
Surface Mount Silicon Zener Diodes

Absolute Maximum Ratings

Description	Symbol	Value	Unit
Forward Voltage Drop at I_F 10mA	V_F	0.9	V
Power Dissipation at 25°C	*P_D	410	mW
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	**I_{FSM}	2.0	A
Operating Junction and Storage Temperature Range	T_j	- 55 to +150	°C

* Mounted on 5.0mm^2 (0.13mm thick) land areas
** Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle=4 pulses per minute maximum

Package SOD - 123 FL



Cathode is Marked by Band

Dimension	Minimum	Maximum
A	1.55	1.65
B	0.5	0.6
C	3.7	3.9
D	2.6	2.7
E	1.05	1.15
F	0.127	0.135

Dimensions : Millimetres

Electrical Characteristics (T_a=25°C unless specified otherwise) V_F at 10mA <0.9V

Zener Voltage		Zener Impedance				Reverse Leakage Current		Marking Code	Part Number
V_Z at I_{ZT}		Z_{ZT} at I_{ZT}		Z_{ZK} at I_{ZK}		I_R at V_R			
(V)		(Ω)	(mA)	(Ω)	(mA)	(μA)	(V)		
min	max	max		max		max			
4.47	4.94	78	5.0	500	1.0	5.0	1.0	W8	BZT52C 4V7
4.85	5.36	60	5.0	480	1.0	0.1	0.8	W9	BZT52C 5V1
5.32	5.88	40	5.0	400	1.0	0.1	1.0	WA	BZT52C 5V6
5.89	6.51	10	5.0	200	1.0	0.1	2.0	WB	BZT52C 6V2
7.13	7.88	7	5.0	50	1.0	0.1	5.0	WD	BZT52C 7V5
7.79	8.61	7	5.0	50	1.0	0.1	6.0	WE	BZT52C 8V2
8.65	9.56	10	5.0	50	1.0	0.1	7.0	WF	BZT52C 9V1
9.50	10.50	15	5.0	70	1.0	0.1	7.5	WG	BZT52C10
10.45	11.55	20	5.0	70	1.0	0.1	8.5	WH	BZT52C 11
11.40	12.60	20	5.0	90	1.0	0.1	9.0	WI	BZT52C12
12.35	13.65	25	5.0	110	1.0	0.1	10	WK	BZT52C13
14.25	15.75	30	5.0	110	1.0	0.1	11	WL	BZT52C15
15.20	16.80	40	5.0	170	1.0	0.1	12	WM	BZT52C16
17.10	18.90	50	5.0	170	1.0	0.1	14	WN	BZT52C18
19.00	21.00	50	5.0	220	1.0	0.1	15	WO	BZT52C 20
20.90	23.10	55	5.0	220	1.0	0.1	17	WP	BZT52C 22
22.80	25.20	80	5.0	220	1.0	0.1	18	WR	BZT52C 24
25.65	28.35	80	5.0	250	1.0	0.1	20	WS	BZT52C 27
28.50	31.50	80	5.0	250	1.0	0.1	22.5	WT	BZT52C 30
31.35	34.65	80	5.0	250	1.0	0.1	25	WU	BZT52C 33
34.20	37.80	90	5.0	250	1.0	0.1	27	WW	BZT52C 36
37.05	40.95	90	5.0	300	1.0	0.1	29	WX	BZT52C 39

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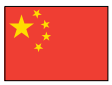

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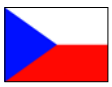

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