

IV. Zener Diode

SMD Zener Diode (0.35 Watt) BZX84C2V4~BZX84C62

(Package: SOT-23)

<p>FEATURES</p> <ul style="list-style-type: none"> • Planar Die construction • 350mW Power Dissipation • Zener Voltage from 2.4V-62V • RoHS compliant / Green EMC <p>DEVICE MARKING CODE</p> <ul style="list-style-type: none"> • As indicated in next page 		<table border="1"> <thead> <tr> <th colspan="3">SOT-23</th> </tr> <tr> <th>DIM</th> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>0.37</td> <td>0.50</td> </tr> <tr> <td>B</td> <td>1.20</td> <td>1.39</td> </tr> <tr> <td>C</td> <td>2.10</td> <td>2.50</td> </tr> <tr> <td>D</td> <td>0.89</td> <td>1.02</td> </tr> <tr> <td>E</td> <td>0.45</td> <td>0.60</td> </tr> <tr> <td>G</td> <td>1.78</td> <td>2.04</td> </tr> <tr> <td>H</td> <td>2.80</td> <td>3.04</td> </tr> <tr> <td>J</td> <td>0.013</td> <td>0.10</td> </tr> <tr> <td>K</td> <td>0.89</td> <td>1.11</td> </tr> <tr> <td>L</td> <td>0.45</td> <td>0.60</td> </tr> <tr> <td>M</td> <td>0.085</td> <td>0.177</td> </tr> <tr> <td colspan="3">All Dimensions in mm</td> </tr> </tbody> </table>	SOT-23			DIM	Min	Max	A	0.37	0.50	B	1.20	1.39	C	2.10	2.50	D	0.89	1.02	E	0.45	0.60	G	1.78	2.04	H	2.80	3.04	J	0.013	0.10	K	0.89	1.11	L	0.45	0.60	M	0.085	0.177	All Dimensions in mm		
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	<p>TOP VIEW</p> <p>Case: SOT-23 Dimensions in millimeters</p>																																											

Ratings & Electrical Characteristics

Maximum Ratings at 25°C unless otherwise noted			
Parameter	Symbol	Value	Unit
Maximum forward voltage @ $I_F = 10\text{mA}$	V_F	0.9	V
Power dissipation	P_D	350	mW
Operating temperature	T_J	-55 to +150	°C
Peak forward surge current	I_{FSM}	2.0	A
Storage temperature range	T_{stg}	-55 to +150	°C
Thermal resistance junction to ambient	R_{th-JA}	357	°C/W

IV. Zener Diode

SMD Zener Diode (0.35 Watt)

BZX84C2V4~BZX84C62

(Package: SOT-23)

Type Number	Marking Code	Nominal Zener Voltage			Maximum Zener Impedance				Maximum Reverse Leakage Current	
		Vz(v)@IzT			ZzT@IzT		ZzK@IzK		Ir@VR	
		Nom.	Min.	Max.	(Ω)	(mA)	(Ω)	(mA)	(μA)	Volts
BZX84C2V4	W1/Z11	2.40	2.28	2.52	100	5	600	1.0	50.00	1.00
BZX84C2V7	W2/Z12	2.70	2.50	2.90	100	5	600	1.0	20.00	1.00
BZX84C3V0	W3/Z13	3.00	2.80	3.20	95	5	600	1.0	10.00	1.00
BZX84C3V3	W4/Z14	3.30	3.10	3.50	95	5	600	1.0	5.00	1.00
BZX84C3V6	W5/Z15	3.60	3.40	3.80	90	5	600	1.0	5.00	1.00
BZX84C3V9	W6/Z16	3.90	3.70	4.10	90	5	600	1.0	3.00	1.00
BZX84C4V3	W7/Z17	4.30	4.00	4.60	90	5	600	1.0	3.00	1.00
BZX84C4V7	W8/Z1	4.70	4.40	5.00	80	5	500	1.0	3.00	2.00
BZX84C5V1	W9/Z2	5.10	4.80	5.40	60	5	480	1.0	2.00	2.00
BZX84C5V6	WA/Z3	5.60	5.20	6.00	40	5	400	1.0	1.00	2.00
BZX84C6V2	WB/Z4	6.20	5.80	6.60	10	5	150	1.0	3.00	4.00
BZX84C6V8	WC/Z5	6.80	6.40	7.20	15	5	80	1.0	2.00	4.00
BZX84C7V5	WD/Z6	7.50	7.00	7.90	15	5	80	1.0	1.00	5.00
BZX84C8V2	WE/Z7	8.20	7.70	8.70	15	5	80	1.0	0.70	5.00
BZX84C9V1	WF/Z8	9.10	8.50	9.60	15	5	100	1.0	0.50	6.00
BZX84C10	WG/Z9	10.00	9.40	10.60	20	5	150	1.0	0.20	7.00
BZX84C11	WH/Y1	11.00	10.40	11.60	20	5	150	1.0	0.10	8.00
BZX84C12	WI/Y2	12.00	11.40	12.70	25	5	150	1.0	0.10	8.00
BZX84C13	WK/Y3	13.00	12.40	14.10	30	5	170	1.0	0.10	8.00
BZX84C15	WL/Y4	15.00	13.80	15.60	30	5	200	1.0	0.10	10.50
BZX84C16	WM/Y5	16.00	15.30	17.10	40	5	200	1.0	0.10	11.20
BZX84C18	WN/Y6	18.00	16.80	19.10	45	5	225	1.0	0.10	12.60
BZX84C20	WO/Y7	20.00	18.80	21.20	55	5	225	1.0	0.10	14.00
BZX84C22	WP/Y8	22.00	20.80	23.30	55	5	250	1.0	0.10	15.40
BZX84C24	WR/Y9	24.00	22.80	25.60	70	5	250	1.0	0.10	16.80
BZX84C27	WS/Y10	27.00	25.10	28.90	80	2	300	1.0	0.10	18.90
BZX84C30	WT/Y11	30.00	28.00	32.00	80	2	300	1.0	0.10	21.00
BZX84C33	WU/Y12	33.00	31.00	35.00	80	2	325	1.0	0.10	23.10
BZX84C36	WW/Y13	36.00	34.00	38.00	90	2	350	1.0	0.10	25.20
BZX84C39	WX/Y14	39.00	37.00	41.00	130	2	350	1.0	0.10	27.30
BZX84C43	WY/Y15	43.00	40.85	45.15	150	5	375	1.0	0.10	30.10
BZX84C47	WZ/Y16	47.00	44.65	49.35	170	5	375	1.0	0.10	32.90
BZX84C51	XA/Y17	51.00	48.45	53.55	100	5	400	1.0	0.10	35.70
BZX84C62	Y19	62.00	58.00	66.00	215	2	450	0.5	0.05	43.40