

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

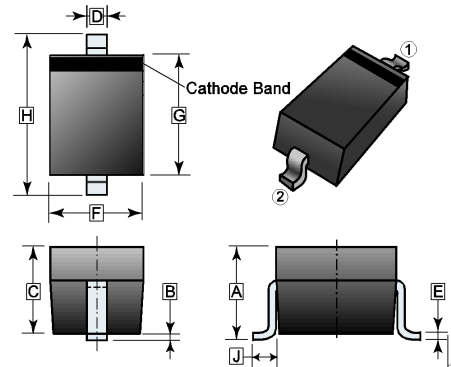
## FEATURES

- Zener Voltages from 2.4V~75V
- Planar Die Construction
- Tight Voltage Tolerance:  $\pm 2\%$  for B-series
- General Purpose, Medium Current
- MSL Class 1 Compatible
- Ideally Suited for Automated Assembly Processes

## MECHANICAL DATA

- Case: SOD-123, Molded Plastic
- Mounting Position: Any
- Polarity: As Marked

### SOD-123



## PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-123	3K	7 inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.15	REF.	F	1.45	1.80
B	0.10	REF.	G	2.55	2.85
C	1.00	1.30	H	3.55	3.85
D	0.30	0.78	J	0.50	REF.
E	0.05	0.25			

## ORDER INFORMATION

Part Number	Type
BPT52Bxxx-C	Lead (Pb)-free and Halogen-free



## ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Power Dissipation	P <sub>D</sub>	350	mW
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	150, -55~150	°C

**ELECTRICAL CHARACTERISTICS** ( $T_A=25^\circ\text{C}$  unless otherwise specified)

Part Number	Marking	Zener Voltage Range <sup>1</sup>				Maximum Zener Impedance			Maximum Reverse Current	
		V <sub>Z</sub> @ I <sub>ZT</sub>			I <sub>ZT</sub>	Z <sub>ZT</sub> @ I <sub>ZT</sub>	Z <sub>ZK</sub> @ I <sub>ZK</sub>	I <sub>ZK</sub>	I <sub>R</sub>	V <sub>R</sub>
		Min.	Nom.	Max.						
		V			mA	Ω		mA	μA	V
BPT52B2V4-C	2WX	2.35	2.4	2.45	5	100	600	1	50	1
BPT52B2V7-C	2W1	2.65	2.7	2.75	5	100	600	1	20	1
BPT52B3V0-C	2W2	2.94	3	3.06	5	95	600	1	10	1
BPT52B3V3-C	2W3	3.23	3.3	3.37	5	95	600	1	5	1
BPT52B3V6-C	2W4	3.53	3.6	3.67	5	90	600	1	5	1
BPT52B3V9-C	2W5	3.82	3.9	3.98	5	90	600	1	3	1
BPT52B4V3-C	2W6	4.21	4.3	4.39	5	90	600	1	3	1
BPT52B4V7-C	2W7	4.61	4.7	4.79	5	80	500	1	3	2
BPT52B5V1-C	2W8	5	5.1	5.2	5	60	480	1	2	2
BPT52B5V6-C	2W9	5.49	5.6	5.71	5	40	400	1	1	2
BPT52B6V2-C	2WA	6.08	6.2	6.32	5	10	150	1	3	4
BPT52B6V8-C	2WB	6.66	6.8	6.94	5	15	80	1	2	4
BPT52B7V5-C	2WC	7.35	7.5	7.65	5	15	80	1	1	5
BPT52B8V2-C	2WD	8.04	8.2	8.36	5	15	80	1	0.7	5
BPT52B9V1-C	2WE	8.92	9.1	9.28	5	15	100	1	0.5	6
BPT52B10-C	2WF	9.8	10	10.2	5	20	150	1	0.2	7
BPT52B11-C	2WG	10.78	11	11.22	5	20	150	1	0.1	8
BPT52B12-C	2WH	11.76	12	12.24	5	25	150	1	0.1	8
BPT52B13-C	2WI	12.74	13	13.26	5	30	170	1	0.1	8
BPT52B14-C	2WX/2WY	13.72	14	14.28	5	25	110	1	0.1	10.5
BPT52B15-C	2WJ	14.7	15	15.3	5	30	200	1	0.1	10.5
BPT52B16-C	2WK	15.68	16	16.32	5	40	200	1	0.1	11.2
BPT52B18-C	2WL	17.64	18	18.36	5	45	225	1	0.1	12.6
BPT52B20-C	2WM	19.6	20	20.4	5	55	225	1	0.1	14
BPT52B22-C	2WN	21.56	22	22.44	5	55	250	1	0.1	15.4
BPT52B24-C	2WO	23.52	24	24.48	5	70	250	1	0.1	16.8
BPT52B27-C	2WP	26.46	27	27.54	2	80	300	0.5	0.1	18.9
BPT52B30-C	2WQ	29.4	30	30.6	2	80	300	0.5	0.1	21
BPT52B33-C	2WR	32.34	33	33.66	2	80	325	0.5	0.1	23.1
BPT52B36-C	2WS	35.28	36	36.72	2	90	350	0.5	0.1	25.2
BPT52B39-C	2WT	38.22	39	39.78	2	130	350	0.5	0.1	27.3

**ELECTRICAL CHARACTERISTICS** ( $T_A=25^\circ\text{C}$  unless otherwise specified)

Part Number	Marking	Zener Voltage Range <sup>1</sup>				Maximum Zener Impedance			Maximum Reverse Current	
		V <sub>Z</sub> @ I <sub>ZT</sub>			I <sub>ZT</sub>	Z <sub>ZT</sub> @ I <sub>ZT</sub>	Z <sub>ZK</sub> @ I <sub>ZK</sub>	I <sub>ZK</sub>	I <sub>R</sub>	V <sub>R</sub>
		Min.	Nom.	Max.						
		V			mA	Ω	mA	μA	V	
BPT52B43-C	2WU	42.14	43	43.86	2	130	350	0.5	0.1	29.4
BPT52B47-C	2WV	45.83	47	48.17	2	170	1000	0.25	0.1	36
BPT52B51-C	2X1	49.73	51	52.27	2	180	1300	0.25	0.1	39
BPT52B56-C	2X2	54.6	56	57.4	2	200	1400	0.25	0.1	43
BPT52B62-C	2X3	60.45	62	63.55	2	225	1400	0.25	0.1	47
BPT52B68-C	2X4	66.3	68	69.7	2	240	1600	0.25	0.1	52
BPT52B75-C	2X5	73.13	75	76.87	2	265	1700	0.25	0.1	56

Note:

1. Pulse Width=10mS.