

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

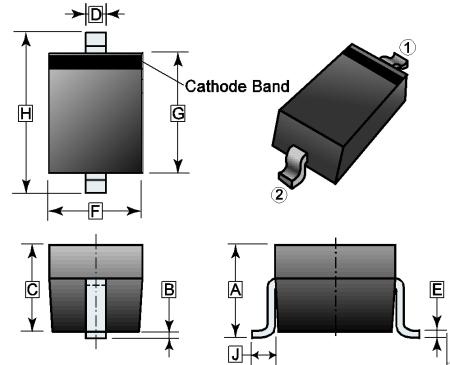
FEATURES

- Zener Voltages from 2.4V~75V
- Planar Die Construction
- Tight Voltage Tolerance: $\pm 5\%$ for C-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



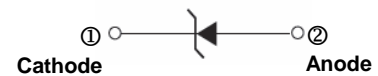
PACKAGE INFORMATION

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
BPT52Cxxx-C	Lead (Pb)-free and Halogen-free



ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Power Dissipation	P _D	350	mW
Operating and Storage Temperature Range	T _J , T _{STG}	150, -55~150	°C

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

Part Number	Marking	Zener Voltage Range ¹				Maximum Zener Impedance			Maximum Reverse Current	
		V _Z @ I _{ZT}			I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R	V _R
		Min.	Nom.	Max.						
		V			mA	Ω		mA	μA	V
BPT52C2V4-C	WX	2.28	2.4	2.52	5	100	600	1	50	1
BPT52C2V7-C	W1	2.57	2.7	2.84	5	100	600	1	20	1
BPT52C3V0-C	W2	2.85	3	3.15	5	95	600	1	10	1
BPT52C3V3-C	W3	3.14	3.3	3.47	5	95	600	1	5	1
BPT52C3V6-C	W4	3.42	3.6	3.78	5	90	600	1	5	1
BPT52C3V9-C	W5	3.71	3.9	4.1	5	90	600	1	3	1
BPT52C4V3-C	W6	4.09	4.3	4.52	5	90	600	1	3	1
BPT52C4V7-C	W7	4.47	4.7	4.94	5	80	500	1	3	2
BPT52C5V1-C	W8	4.85	5.1	5.36	5	60	480	1	2	2
BPT52C5V6-C	W9	5.32	5.6	5.88	5	40	400	1	1	2
BPT52C6V2-C	WA	5.89	6.2	6.51	5	10	150	1	3	4
BPT52C6V8-C	WB	6.46	6.8	7.14	5	15	80	1	2	4
BPT52C7V5-C	WC	7.13	7.5	7.88	5	15	80	1	1	5
BPT52C8V2-C	WD	7.79	8.2	8.61	5	15	80	1	0.7	5
BPT52C9V1-C	WE	8.65	9.1	9.56	5	15	100	1	0.5	6
BPT52C10-C	WF	9.5	10	10.5	5	20	150	1	0.2	7
BPT52C11-C	WG	10.45	11	11.55	5	20	150	1	0.1	8
BPT52C12-C	WH	11.4	12	12.6	5	25	150	1	0.1	8
BPT52C13-C	WI	12.35	13	13.65	5	30	170	1	0.1	8
BPT52C15-C	WJ	14.25	15	15.75	5	30	200	1	0.1	10.5
BPT52C16-C	WK	15.2	16	16.8	5	40	200	1	0.1	11.2
BPT52C18-C	WL	17.1	18	18.9	5	45	225	1	0.1	12.6
BPT52C20-C	WM	19	20	21	5	55	225	1	0.1	14
BPT52C22-C	WN	20.9	22	23.1	5	55	250	1	0.1	15.4
BPT52C24-C	WO	22.8	24	25.2	5	70	250	1	0.1	16.8
BPT52C27-C	WP	25.65	27	28.35	2	80	300	0.5	0.1	18.9
BPT52C30-C	WQ	28.5	30	31.5	2	80	300	0.5	0.1	21
BPT52C33-C	WR	31.35	33	34.65	2	80	325	0.5	0.1	23.1
BPT52C36-C	WS	34.2	36	37.8	2	90	350	0.5	0.1	25.2
BPT52C39-C	WT	37.05	39	40.95	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 ¹			Maximum Zener Impedance			Maximum Reverse Current		
		V _Z @ I _{ZT}			I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R	V _R
		Min.	Nom.	Max.						
		V			mA	Ω		mA	μA	V
BPT52C43-C	WU	40.85	43	45.15	2	150	375	0.5	0.05	30.1
BPT52C47-C	WV	44.65	47	49.35	2	170	1000	0.25	0.1	36
BPT52C51-C	X1	48.45	51	53.55	2	180	1300	0.25	0.1	39
BPT52C56-C	X2	53.2	56	58.8	2	200	1400	0.25	0.1	43
BPT52C62-C	X3	58.9	62	65.1	2	225	1400	0.25	0.1	47
BPT52C68-C	X4	64.6	68	71.4	2	240	1600	0.25	0.1	52
BPT52C75-C	X5	71.25	75	78.75	2	265	1700	0.25	0.1	56

Note:

1. Pulse Width=10mS.