



BZX784C2V4 THRU BZX784C51

Surface Mount Silicon Zener Diodes
Voltage 2.4 to 51 volts power 200 mWatts

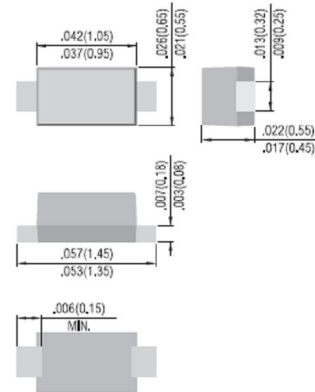
Features

- Planar Die construction
- 200mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- In compliance with EU RoHS 2002/95/EC directives

Mechanical Data

- Case: SOD-723, molded plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Mounting position: Any
- Approx. Weight: 0.00077 gram

SOD-723



Unit: inch(mm)

MAXIMUM RATINGS

Parameter	Symbol	Value	Units
Power Dissipation at 25 °C	P _D	200	mW
Operating Junction and Storage Temperature Range	T _J	-55 to +150	°C

Notes: A. Mounted on 5.0mm²(.013mm thick)land areas

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking Code
	V _Z @ I _{ZT}			Z _{ZT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R		
	Nom. V	Min. V	Max. V	&	mA	&	mA	αA	V	
200 mWatts Zener Diodes										
BZX784C2V4	2.4	2.28	2.52	100	5.0	600	1.00	50	1.0	W1
BZX784C2V7	2.7	2.57	2.84	100	5.0	600	1.00	20	1.0	W2
BZX784C3V0	3	2.85	3.15	95	5.0	600	1.00	10	1.0	W3
BZX784C3V3	3.3	3.14	3.47	95	5.0	600	1.00	5.0	1.0	W4
BZX784C3V6	3.6	3.42	3.78	90	5.0	600	1.00	5.0	1.0	W5
BZX784C3V9	3.9	3.71	4.10	90	5.0	600	1.00	3.0	1.0	W6
BZX784C4V3	4.3	4.09	4.52	90	5.0	600	1.00	3.0	1.0	W7
BZX784C4V7	4.7	4.47	4.94	80	5.0	500	1.00	3.0	2.0	W8
BZX784C5V1	5.1	4.85	5.36	60	5.0	480	1.00	2.0	2.0	W9
BZX784C5V6	5.6	5.32	5.88	40	5.0	400	1.00	1.0	2.0	WA
BZX784C6V2	6.2	5.89	6.51	10	5.0	150	1.00	3.0	4.0	WB
BZX784C6V8	6.8	6.46	7.14	15	5.0	80	1.00	2.0	4.0	WC
BZX784C7V5	7.5	7.13	7.88	15	5.0	80	1.00	1.0	5.0	WD
BZX784C8V2	8.2	7.79	8.61	15	5.0	80	1.00	0.7	5.0	WE
BZX784C8V7	8.7	8.27	9.14	15	5.0	100	1.00	0.7	5.0	3C
BZX784C9V1	9.1	8.65	9.56	15	5.0	100	1.00	0.5	6.0	WF
BZX784C10	10	9.50	10.50	20	5.0	150	1.00	0.2	7.0	XB
BZX784C11	11	10.45	11.55	20	5.0	150	1.00	0.1	8.0	WH
BZX784C12	12	11.40	12.60	25	5.0	150	1.00	0.1	8.0	WI
BZX784C13	13	12.35	13.65	30	5.0	170	1.00	0.1	8.0	WK
BZX784C14	14	13.30	14.70	30	5.0	170	1.00	0.1	10.00	WJ
BZX784C15	15	14.25	15.75	30	5.0	200	1.00	0.1	10.50	WL
BZX784C16	16	15.20	16.80	40	5.0	200	1.00	0.1	11.20	WM
BZX784C17	17	16.15	17.85	40	5.0	200	1.00	0.1	12.20	4C
BZX784C18	18	17.10	18.90	45	5.0	225	1.00	0.1	12.60	WN
BZX784C20	20	19.00	21.00	55	5.0	225	1.00	0.1	14.00	WO
BZX784C22	22	20.90	23.10	55	5.0	250	1.00	0.1	15.40	WP
BZX784C24	24	22.80	25.20	70	5.0	250	1.00	0.1	16.80	WR
BZX784C27	27	25.65	28.35	80	5.0	300	1.00	0.1	18.90	WS
BZX784C28	28	26.60	29.40	80	5.0	300	1.00	0.1	20.50	5C
BZX784C30	30	28.50	31.50	80	5.0	300	1.00	0.1	21.00	WT
BZX784C33	33	31.35	34.65	80	5.0	325	1.00	0.1	23.10	WU
BZX784C36	36	34.20	37.80	90	5.0	350	1.00	0.1	25.20	WW
BZX784C39	39	37.05	40.95	130	5.0	350	1.00	0.1	27.30	WX
BZX784C43	43	40.85	45.15	150	5.0	375	1.00	0.1	30.10	WY
BZX784C47	47	44.65	49.35	170	5.0	375	1.00	0.1	32.90	WZ
BZX784C51	51	48.45	53.55	100	5.0	400	1.00	0.1	38.00	XA

RATING AND CHARACTERISTIC CURVES

Fig1. Steady State Power Derating

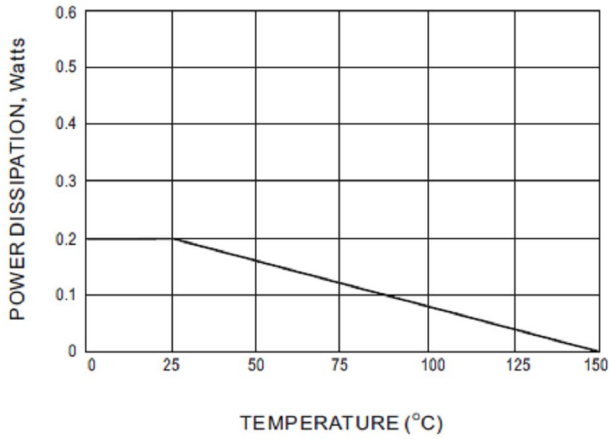


Fig2. Temperature Coefficients

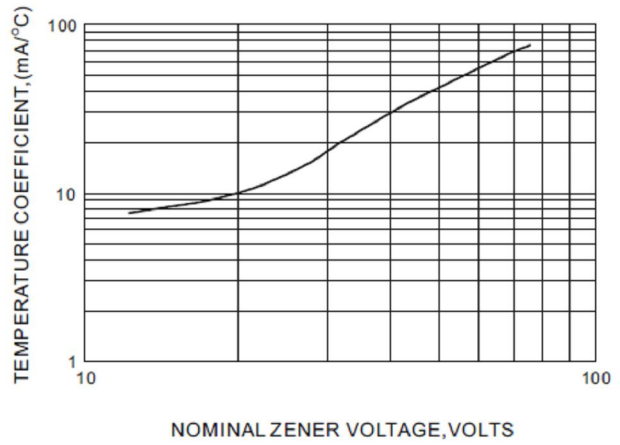


Fig3. Typical Leakage Current

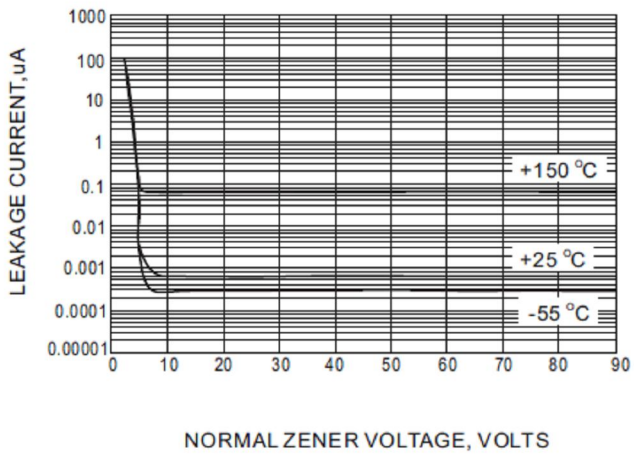


Fig4. Typical Forward Voltage

