

BZX784C2V4~BZX784C51

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE 2.4 to 51 Volts **POWER** 200 mWatts

SOD-723

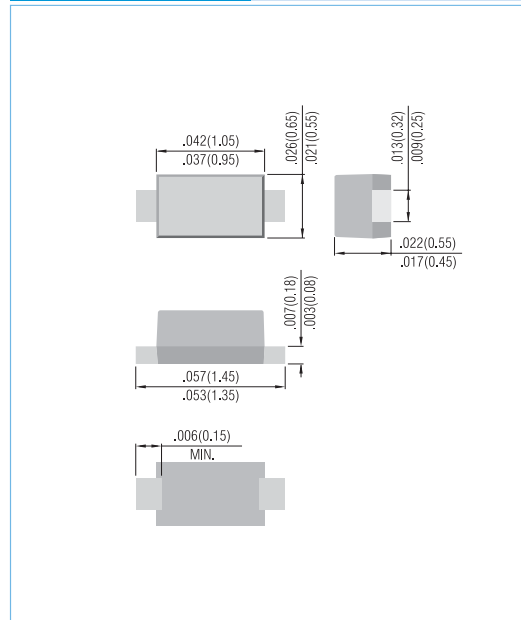
Unit: inch (mm)

FEATURES

- Planar Die construction
- 200 mW Power Dissipation
- Zener Voltages from 2.4~51V
- 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
- Polarity: See Diagram Below
- Mounting Position: Any
- Weight: approximately 0.00077gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Power Dissipation (Notes A) 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.



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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	Ω	mA	Ω	mA	μA	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

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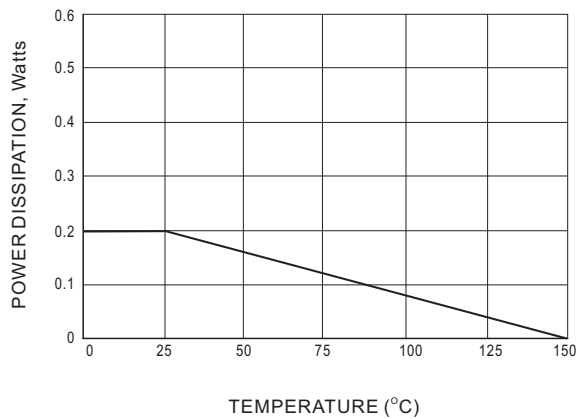


Fig.1 STEADY STATE POWER DERATING

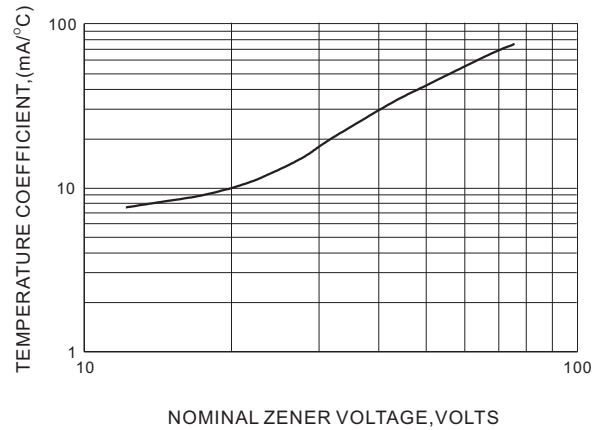


Fig.2 TEMPERATURE COEFFICIENTS

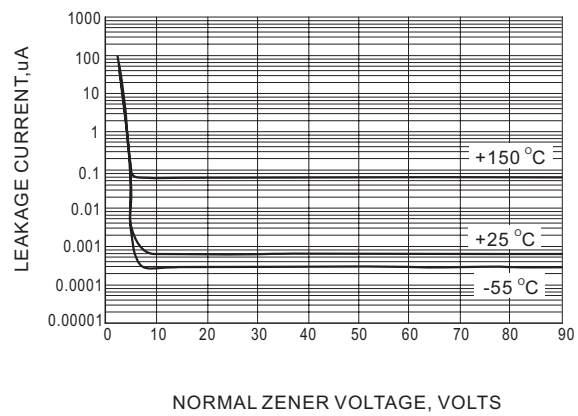


Fig.3 TYPICAL LEAKAGE CURRENT

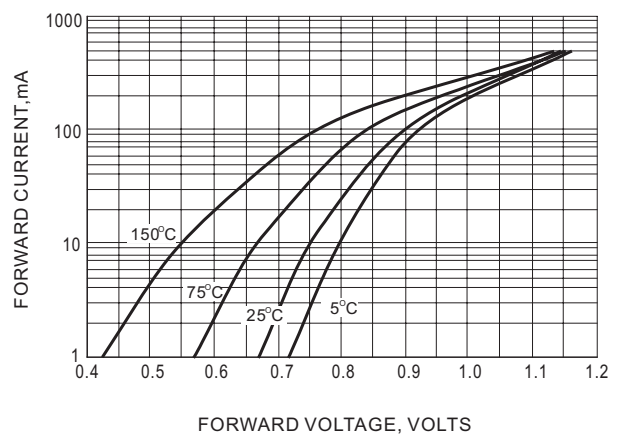


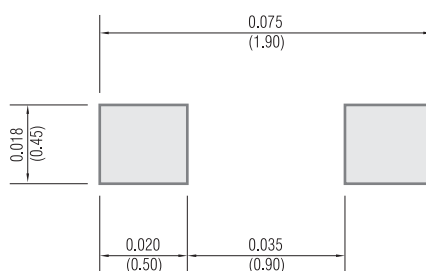
Fig.4 TYPICAL FORWARD VOLTAGE

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MOUNTING PAD LAYOUT

SOD-723

Unit: inch (mm)



ORDER INFORMATION

- Packing information

T/R - 8K per 7" plastic Reel

LEGAL STATEMENT

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