

BZX84C2V4-AU SERIES

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE 2.4 to 75 Volt **POWER** 410 mWatt

SOT-23

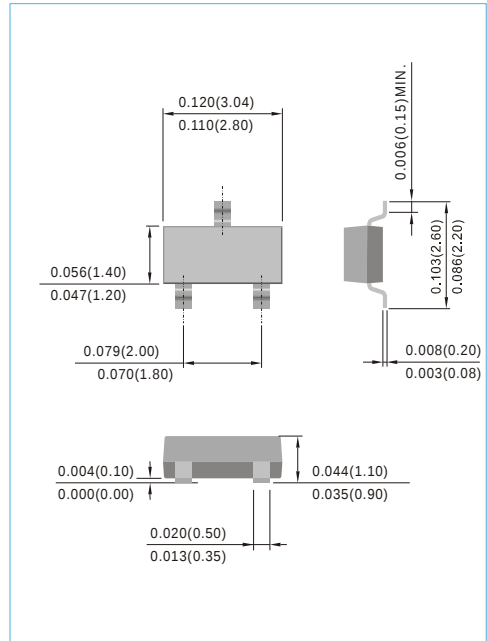
Unit : inch(mm)

FEATURES

- Planar Die construction
- 410mW Power Dissipation
- Zener Voltages from 2.4~75V
- Ideally Suited for Automated Assembly Processes
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOT-23, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounces, 0.0084 grams

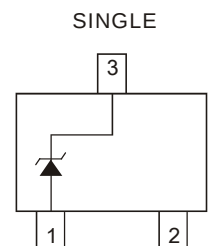


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS(T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Units
Maximum Power Dissipation (Notes 1) at 25°C	P _D	410	mW
Typical Thermal Resistance, Junction to Ambient (Notes 2)	R _{θJA}	500	°C/W
Operating Junction and Storage Temperature Range	T _J	-55 to +150	°C

NOTES:

1. Mounted on 50mmX16mm FR-4 board.
2. Mounted on minimum pad layout (1cmX1cm FR-4 board).





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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	
BZX84C2V4-AU	2.4	2.28	2.52	100	5.0	600	1.00	50	1.0	W1
BZX84C2V7-AU	2.7	2.57	2.84	100	5.0	600	1.00	20	1.0	W2
BZX84C3-AU	3	2.85	3.15	95	5.0	600	1.00	10	1.0	W3
BZX84C3V3-AU	3.3	3.14	3.47	95	5.0	600	1.00	5.0	1.0	W4
BZX84C3V6-AU	3.6	3.42	3.78	90	5.0	600	1.00	5.0	1.0	W5
BZX84C3V9-AU	3.9	3.71	4.10	90	5.0	600	1.00	3.0	1.0	W6
BZX84C4V3-AU	4.3	4.09	4.52	90	5.0	600	1.00	3.0	1.0	W7
BZX84C4V7-AU	4.7	4.47	4.94	80	5.0	500	1.00	3.0	2.0	W8
BZX84C5V1-AU	5.1	4.85	5.36	60	5.0	480	1.00	2.0	2.0	W9
BZX84C5V6-AU	5.6	5.32	5.88	40</						

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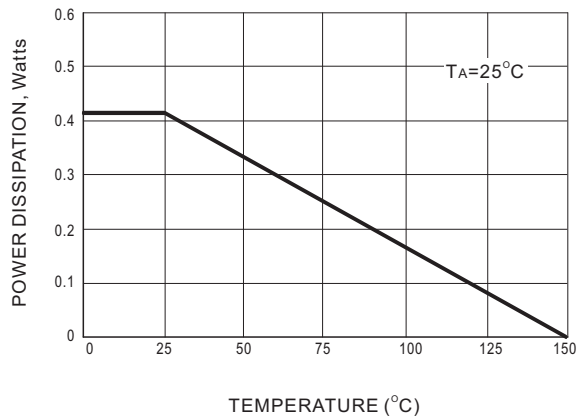


Fig.1 STEADY STATE POWER DERATING

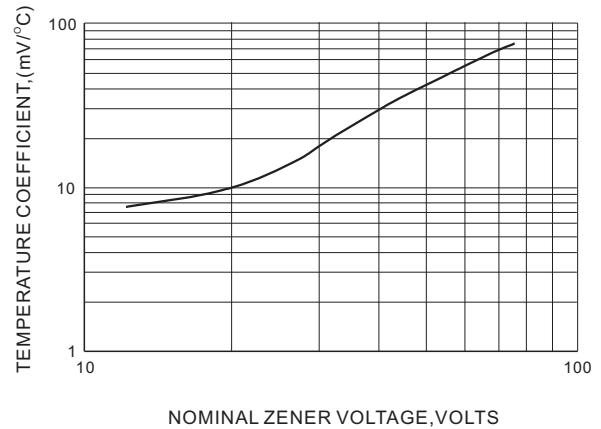


Fig.2 TEMPERATURE COEFFICIENTS

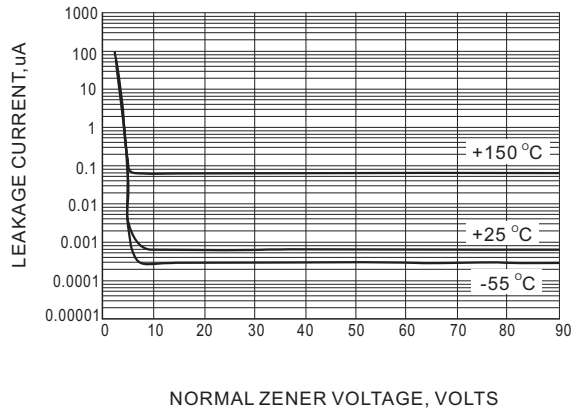


Fig.3 TYPICAL LEAKAGE CURRENT

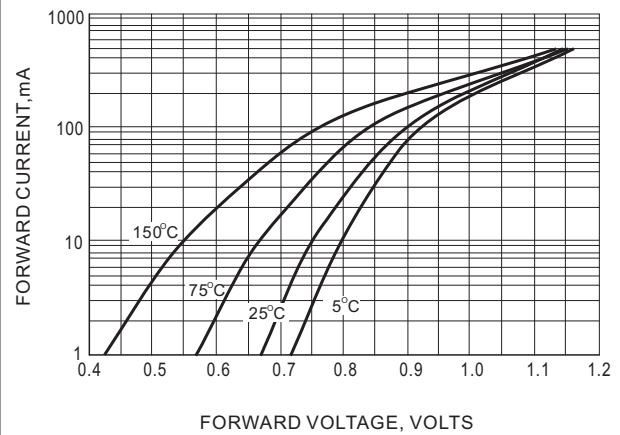


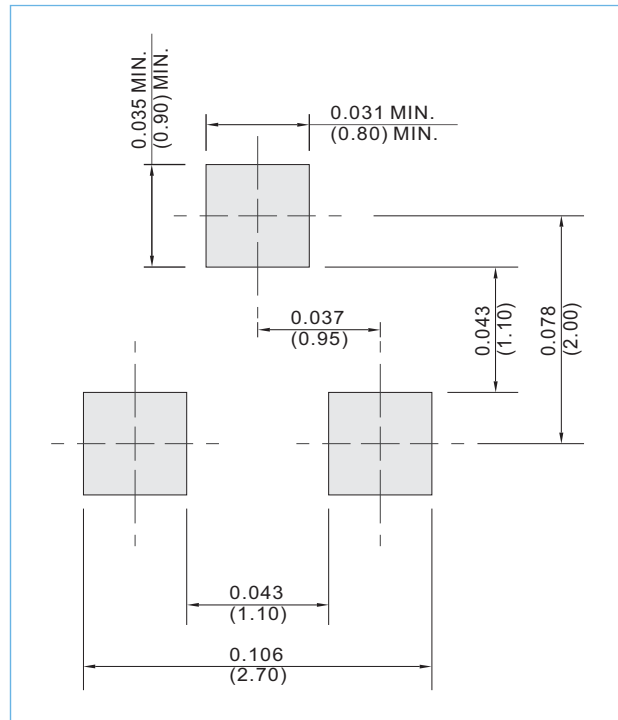
Fig.4 TYPICAL FORWARD VOLTAGE

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MOUNTING PAD LAYOUT

SOT-23

Unit : inch(mm)



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

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Part No_packing code_Version

BZX84C2V4-AU_R1_000A1

BZX84C2V4-AU_R2_000A1

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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