

# Zener Voltage Regulators

250 mW SOT-23 Surface Mount

## BZX84BxxxLT1G, BZX84CxxxLT1G Series, SZBZX84BxxxLT1G, SZBZX84CxxxLT1G Series

This series of Zener diodes is offered in the convenient, surface mount plastic SOT-23 package. These devices are designed to provide voltage regulation with minimum space requirement. They are well suited for applications such as cellular phones, hand held portables, and high density PC boards.

### Features

- 250 mW Rating on FR-4 or FR-5 Board
- Zener Breakdown Voltage Range – 2.4 V to 75 V
- Package Designed for Optimal Automated Board Assembly
- Small Package Size for High Density Applications
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- Tight Tolerance Series Available (See Page 4)
- SZ Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb-Free and are RoHS Compliant

### Mechanical Characteristics

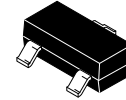
**CASE:** Void-free, transfer-molded, thermosetting plastic case

**FINISH:** Corrosion resistant finish, easily Solderable

**MAXIMUM CASE TEMPERATURE FOR SOLDERING PURPOSES:**  
260°C for 10 Seconds

**POLARITY:** Cathode indicated by polarity band

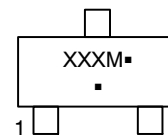
**FLAMMABILITY RATING:** UL 94 V-0



SOT-23  
CASE 318  
STYLE 8



### MARKING DIAGRAM



XXX = Device Code  
M = Date Code\*  
▪ = Pb-Free Package

(Note: Microdot may be in either location)

\*Date Code orientation may vary depending upon manufacturing location.

### ORDERING INFORMATION

Device	Package	Shipping†
BZX84CxxxLT1G	SOT-23 (Pb-Free)	3,000 / Tape & Reel
SZBZX84CxxxLT1G	SOT-23 (Pb-Free)	3,000 / Tape & Reel
BZX84CxxxLT3G	SOT-23 (Pb-Free)	10,000 / Tape & Reel
SZBZX84CxxxLT3G	SOT-23 (Pb-Free)	10,000 / Tape & Reel
BZX84BxxxLT1G	SOT-23 (Pb-Free)	3,000 / Tape & Reel
SZBZX84BxxxLT1G	SOT-23 (Pb-Free)	3,000 / Tape & Reel
BZX84BxxxLT3G	SOT-23 (Pb-Free)	10,000 / Tape & Reel
SZBZX84BxxxLT3G	SOT-23 (Pb-Free)	10,000 / Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, BRD8011/D.

### DEVICE MARKING INFORMATION

See specific marking information in the device marking column of the Electrical Characteristics table on page 3 of this data sheet.

\*For additional information on our Pb-Free strategy and soldering details, please download the onsemi Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

# BZX84BxxxLT1G, BZX84CxxxLT1G Series, SZBZX84BxxxLT1G, SZBZX84CxxxLT1G Series

## MAXIMUM RATINGS

Rating	Symbol	Max	Unit
Total Power Dissipation on FR-5 Board, (Note 1) @ $T_A = 25^\circ\text{C}$ Derated above $25^\circ\text{C}$	$P_D$	250	mW
Thermal Resistance, Junction-to-Ambient	$R_{\theta JA}$	2.0	$\text{mW}/^\circ\text{C}$
		500	$^\circ\text{C}/\text{W}$
Total Power Dissipation on Alumina Substrate, (Note 2) @ $T_A = 25^\circ\text{C}$ Derated above $25^\circ\text{C}$	$P_D$	300	mW
Thermal Resistance, Junction-to-Ambient	$R_{\theta JA}$	2.4	$\text{mW}/^\circ\text{C}$
		417	$^\circ\text{C}/\text{W}$
Junction and Storage Temperature Range	$T_J, T_{stg}$	-65 to +150	$^\circ\text{C}$

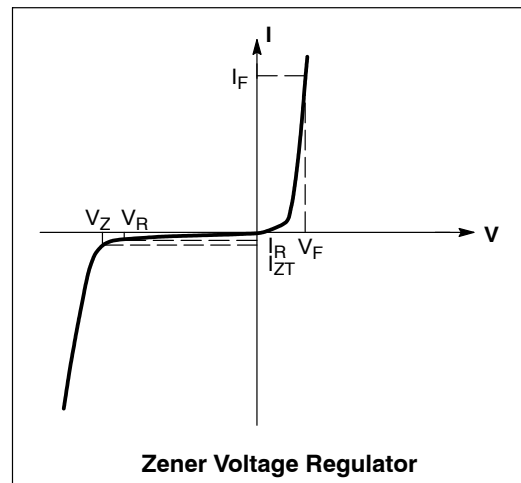
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

- FR-5 = 1.0 X 0.75 X 0.62 in.
- Alumina = 0.4 X 0.3 X 0.024 in., 99.5% alumina.

## ELECTRICAL CHARACTERISTICS

(Pinout: 1-Anode, 2-No Connection, 3-Cathode) ( $T_A = 25^\circ\text{C}$  unless otherwise noted,  $V_F = 0.90\text{ V Max. @ } I_F = 10\text{ mA}$ )

Symbol	Parameter
$V_Z$	Reverse Zener Voltage @ $I_{ZT}$
$I_{ZT}$	Reverse Current
$Z_{ZT}$	Maximum Zener Impedance @ $I_{ZT}$
$I_R$	Reverse Leakage Current @ $V_R$
$V_R$	Reverse Voltage
$I_F$	Forward Current
$V_F$	Forward Voltage @ $I_F$
$\Theta V_Z$	Maximum Temperature Coefficient of $V_Z$
C	Max. Capacitance @ $V_R = 0$ and $f = 1\text{ MHz}$



# BZX84BxxxLT1G, BZX84CxxxLT1G Series, SZBZX84BxxxLT1G, SZBZX84CxxxLT1G Series

## ELECTRICAL CHARACTERISTICS – BZX84CxxxLT1 SERIES (STANDARD TOLERANCE)

(Pinout: 1-Anode, 2-No Connection, 3-Cathode) (T<sub>A</sub> = 25°C unless otherwise noted, V<sub>F</sub> = 0.90 V Max. @ I<sub>F</sub> = 10 mA)  
 (Devices listed in **bold, italic** are onsemi Preferred devices.)

Device*	Device Marking	V <sub>Z1</sub> (Volts) @ I <sub>ZT1</sub> = 5 mA (Note 3)			Z <sub>ZT1</sub> (Ω) @ I <sub>ZT1</sub> = 5 mA	V <sub>Z2</sub> (V) @ I <sub>ZT2</sub> = 1 mA (Note 3)		Z <sub>ZT2</sub> (Ω) @ I <sub>ZT2</sub> = 1 mA	V <sub>Z3</sub> (V) @ I <sub>ZT3</sub> = 20 mA (Note 3)		Z <sub>ZT3</sub> (Ω) @ I <sub>ZT3</sub> = 20 mA	Max Reverse Leakage Current		θ <sub>VZ</sub> (mV/k) @ I <sub>ZT1</sub> = 5 mA		C (pF) @ V <sub>R</sub> = 0 f = 1 MHz
		Min	Nom	Max		Min	Max		Min	Max		I <sub>R</sub> (μA)	V <sub>R</sub> (Volts)	Min	Max	
		Min	Nom	Max	Min	Max	Min	Max	Min	Max	I <sub>R</sub> (μA)	V <sub>R</sub> (Volts)	Min	Max		
BZX84C2V4LT1G	Z11	2.2	2.4	2.6	100	1.7	2.1	600	2.6	3.2	50	50	1	-3.5	0	450
BZX84C2V7LT1G	Z12	2.5	2.7	2.9	100	1.9	2.4	600	3	3.6	50	20	1	-3.5	0	450
BZX84C3V0LT1G	Z13	2.8	3	3.2	95	2.1	2.7	600	3.3	3.9	50	10	1	-3.5	0	450
BZX84C3V3LT1G	Z14	3.1	3.3	3.5	95	2.3	2.9	600	3.6	4.2	40	5	1	-3.5	0	450
BZX84C3V6LT1G	Z15	3.4	3.6	3.8	90	2.7	3.3	600	3.9	4.5	40	5	1	-3.5	0	450
BZX84C3V9LT1G	Z16	3.7	3.9	4.1	90	2.9	3.5	600	4.1	4.7	30	3	1	-3.5	-2.5	450
BZX84C4V3LT1G	W9	4	4.3	4.6	90	3.3	4	600	4.4	5.1	30	3	1	-3.5	0	450
<b>BZX84C4V7LT1/T3G</b>	<b>Z1</b>	<b>4.4</b>	<b>4.7</b>	<b>5</b>	<b>80</b>	<b>3.7</b>	<b>4.7</b>	<b>500</b>	<b>4.5</b>	<b>5.4</b>	<b>15</b>	<b>3</b>	<b>2</b>	<b>-3.5</b>	<b>0.2</b>	<b>260</b>
<b>BZX84C5V1LT1/T3G</b>	<b>Z2</b>	<b>4.8</b>	<b>5.1</b>	<b>5.4</b>	<b>60</b>	<b>4.2</b>	<b>5.3</b>	<b>480</b>	<b>5</b>	<b>5.9</b>	<b>15</b>	<b>2</b>	<b>2</b>	<b>-2.7</b>	<b>1.2</b>	<b>225</b>
<b>BZX84C5V6LT1/T3G</b>	<b>Z3</b>	<b>5.2</b>	<b>5.6</b>	<b>6</b>	<b>40</b>	<b>4.8</b>	<b>6</b>	<b>400</b>	<b>5.2</b>	<b>6.3</b>	<b>10</b>	<b>1</b>	<b>2</b>	<b>-2.0</b>	<b>2.5</b>	<b>200</b>
<b>BZX84C6V2LT1/T3G</b>	<b>Z4</b>	<b>5.8</b>	<b>6.2</b>	<b>6.6</b>	<b>10</b>	<b>5.6</b>	<b>6.6</b>	<b>150</b>	<b>5.8</b>	<b>6.8</b>	<b>6</b>	<b>3</b>	<b>4</b>	<b>0.4</b>	<b>3.7</b>	<b>185</b>
BZX84C6V8LT1/T3G	Z5	6.4	6.8	7.2	15	6.3	7.2	80	6.4	7.4	6	2	4	1.2	4.5	155
BZX84C7V5LT1G	Z6	7	7.5	7.9	15	6.9	7.9	80	7	8	6	1	5	2.5	5.3	140
BZX84C8V2LT1G	Z7	7.7	8.2	8.7	15	7.6	8.7	80	7.7	8.8	6	0.7	5	3.2	6.2	135
BZX84C9V1LT1/T3G	Z8	8.5	9.1	9.6	15	8.4	9.6	100	8.5	9.7	8	0.5	6	3.8	7.0	130
BZX84C10LT1G	Z9	9.4	10	10.6	20	9.3	10.6	150	9.4	10.7	10	0.2	7	4.5	8.0	130
BZX84C11LT1G	Y1	10.4	11	11.6	20	10.2	11.6	150	10.4	11.8	10	0.1	8	5.4	9.0	130
<b>BZX84C12LT1G</b>	<b>Y2</b>	<b>11.4</b>	<b>12</b>	<b>12.7</b>	<b>25</b>	<b>11.2</b>	<b>12.7</b>	<b>150</b>	<b>11.4</b>	<b>12.9</b>	<b>10</b>	<b>0.1</b>	<b>8</b>	<b>6.0</b>	<b>10.0</b>	<b>130</b>
BZX84C13LT1G	Y3	12.4	13	14.1	30	12.3	14	170	12.5	14.2	15	0.1	8	7.0	11.0	120
BZX84C15LT1/T3G	Y4	13.8	15	15.6	30	13.7	15.5	200	13.9	15.7	20	0.05	10.5	9.2	13.0	110
BZX84C16LT1G	Y5	15.3	16	17.1	40	15.2	17	200	15.4	17.2	20	0.05	11.2	10.4	14.0	105
<b>BZX84C18LT1/T3G</b>	<b>Y6</b>	<b>16.8</b>	<b>18</b>	<b>19.1</b>	<b>45</b>	<b>16.7</b>	<b>19</b>	<b>225</b>	<b>16.9</b>	<b>19.2</b>	<b>20</b>	<b>0.05</b>	<b>12.6</b>	<b>12.4</b>	<b>16.0</b>	<b>100</b>
BZX84C20LT1G	Y7	18.8	20	21.2	55	18.7	21.1	225	18.9	21.4	20	0.05	14	14.4	18.0	85
BZX84C22LT1G	Y8	20.8	22	23.3	55	20.7	23.2	250	20.9	23.4	25	0.05	15.4	16.4	20.0	85
BZX84C24LT1G	Y9	22.8	24	25.6	70	22.7	25.5	250	22.9	25.7	25	0.05	16.8	18.4	22.0	80
Device*	Device Marking	V <sub>Z1</sub> Below @ I <sub>ZT1</sub> = 2 mA			Z <sub>ZT1</sub> Below @ I <sub>ZT1</sub> = 2 mA	V <sub>Z2</sub> Below @ I <sub>ZT2</sub> = 0.1 mA		Z <sub>ZT2</sub> Below @ I <sub>ZT2</sub> = 0.5 mA	V <sub>Z3</sub> Below @ I <sub>ZT3</sub> = 10 mA		Z <sub>ZT3</sub> Below @ I <sub>ZT3</sub> = 10 mA	Max Reverse Leakage Current		θ <sub>VZ</sub> (mV/k) Below @ I <sub>ZT1</sub> = 2 mA		C (pF) @ V <sub>R</sub> = 0 f = 1 MHz
		Min	Nom	Max		Min	Max		Min	Max		I <sub>R</sub> (μA)	V <sub>R</sub> (V)	Min	Max	
		Min	Nom	Max	Min	Max	Min	Max	Min	Max	I <sub>R</sub> (μA)	V <sub>R</sub> (V)	Min	Max		
BZX84C27LT1G	Y10	25.1	27	28.9	80	25	28.9	300	25.2	29.3	45	0.05	18.9	21.4	25.3	70
BZX84C30LT1G	Y11	28	30	32	80	27.8	32	300	28.1	32.4	50	0.05	21	24.4	29.4	70
BZX84C33LT1/T3G	Y12	31	33	35	80	30.8	35	325	31.1	35.4	55	0.05	23.1	27.4	33.4	70
BZX84C36LT1G	Y13	34	36	38	90	33.8	38	350	34.1	38.4	60	0.05	25.2	30.4	37.4	70
BZX84C39LT1G	Y14	37	39	41	130	36.7	41	350	37.1	41.5	70	0.05	27.3	33.4	41.2	45
BZX84C43LT1G	Y15	40	43	46	150	39.7	46	375	40.1	46.5	80	0.05	30.1	37.6	46.6	40
BZX84C47LT1G	Y16	44	47	50	170	43.7	50	375	44.1	50.5	90	0.05	32.9	42.0	51.8	40
BZX84C51LT1G	Y17	48	51	54	180	47.6	54	400	48.1	54.6	100	0.05	35.7	46.6	57.2	40
BZX84C56LT1G	Y18	52	56	60	200	51.5	60	425	52.1	60.8	110	0.05	39.2	52.2	63.8	40
BZX84C62LT1G	Y19	58	62	66	215	57.4	66	450	58.2	67	120	0.05	43.4	58.8	71.6	35
BZX84C68LT1G	Y20	64	68	72	240	63.4	72	475	64.2	73.2	130	0.05	47.6	65.6	79.8	35
BZX84C75LT1G	Y21	70	75	79	255	69.4	79	500	70.3	80.2	140	0.05	52.5	73.4	88.6	35

3. Zener voltage is measured with a pulse test current I<sub>Z</sub> at an ambient temperature of 25°C.

\*Includes SZ-prefix devices where applicable.

# BZX84BxxxLT1G, BZX84CxxxLT1G Series, SZBZX84BxxxLT1G, SZBZX84CxxxLT1G Series

## ELECTRICAL CHARACTERISTICS – BZX84BxxxL (Tight Tolerance Series)

(Pinout: 1-Anode, 2-No Connection, 3-Cathode) ( $T_A = 25^\circ\text{C}$  unless otherwise noted,  $V_F = 0.90\text{ V Max. @ } I_F = 10\text{ mA}$ )

Device	Device Marking	$V_Z$ (Volts) @ $I_{ZT} = 5\text{ mA}$ (Note 4)			$Z_{ZT} (\Omega)$ @ $I_{ZT} = 5\text{ mA}$ (Note 4)	Max Reverse Leakage Current		$\theta_{VZ}$ (mV/k) @ $I_{ZT} = 5\text{ mA}$		C (pF) @ $V_R = 0$ , f = 1 MHz
						$I_R$	$V_R$			
		Min	Nom	Max	Max	$\mu\text{A}$	@ Volts	Min	Max	
BZX84B3V3LT1G	T2A	3.23	3.3	3.37	95	5	1	-3.5	0	450
BZX84B4V7LT1G	T10	4.61	4.7	4.79	80	3	2	-3.5	0.2	260
BZX84B5V1LT1G	T11	5.00	5.1	5.20	60	2	2	-2.7	1.2	225
BZX84B5V6LT1G	T12	5.49	5.6	5.71	40	1	2	-2	2.5	200
BZX84B6V2LT1G	T13	6.08	6.2	6.32	10	3	4	0.4	3.7	185
BZX84B6V8LT1G	T14	6.66	6.8	6.94	15	2	4	1.2	4.5	155
BZX84B7V5LT1G	T15	7.35	7.5	7.65	15	1	5	2.5	5.3	140
BZX84B8V2LT1G	T16	8.04	8.2	8.36	15	0.7	5	3.2	6.2	135
BZX84B9V1LT1G, T3G	T17	8.92	9.1	9.28	15	0.5	6	3.8	7	130
BZX84B10LT1G	T2E	9.8	10	10.2	20	0.2	7	4.5	8	130
BZX84B12LT1G	T18	11.8	12	12.2	25	0.1	8	6	10	130
BZX84B15LT1G	T22	14.7	15	15.3	30	0.05	10.5	9.2	13	110
BZX84B16LT1G	T19	15.7	16	16.3	40	0.05	11.2	10.4	14	105
BZX84B18LT1G	T20	17.6	18	18.4	45	0.05	12.6	12.4	16	100
BZX84B22LT1G	T24	21.6	22	22.4	55	0.05	15.4	16.4	20	85
BZX84B24LT1G	T25	23.5	24	24.5	70	0.05	16.8	18.4	22	80

4. Zener voltage is measured with a pulse test current  $I_Z$  at an ambient temperature of  $25^\circ\text{C}$ .

## ELECTRICAL CHARACTERISTICS – BZX84BxxxL (Tight Tolerance Series)

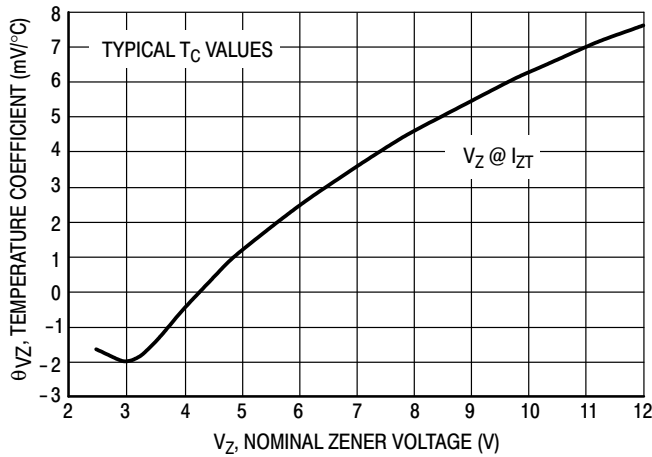
(Pinout: 1-Anode, 2-No Connection, 3-Cathode) ( $T_A = 25^\circ\text{C}$  unless otherwise noted,  $V_F = 0.90\text{ V Max. @ } I_F = 10\text{ mA}$ )

Device*	Device Marking	$V_Z$ (Volts) @ $I_{ZT} = 2\text{ mA}$ (Note 4)			$Z_{ZT} (\Omega)$ @ $I_{ZT} = 2\text{ mA}$ (Note 4)	Max Reverse Leakage Current		$\theta_{VZ}$ (mV/k) @ $I_{ZT} = 2\text{ mA}$		C (pF) @ $V_R = 0$ , f = 1 MHz
						$I_R$	$V_R$			
		Min	Nom	Max	Max	$\mu\text{A}$	@ Volts	Min	Max	
BZX84B27LT1G	T27	26.5	27	27.5	80	0.05	18.9	21.4	25.3	70

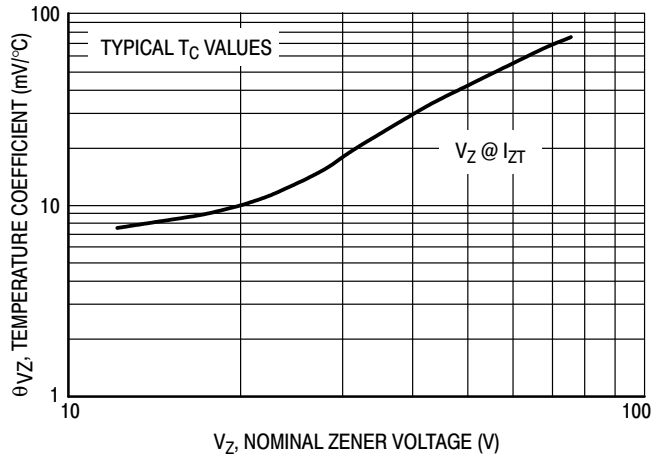
\*Includes SZ-prefix devices where applicable.

# BZX84BxxxLT1G, BZX84CxxxLT1G Series, SZBZX84BxxxLT1G, SZBZX84CxxxLT1G Series

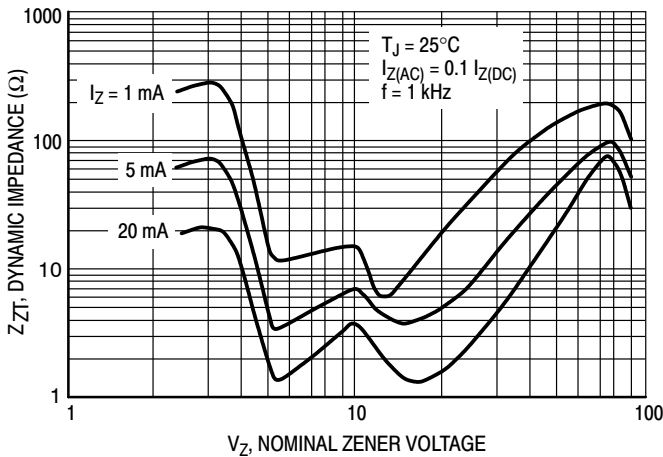
## TYPICAL CHARACTERISTICS



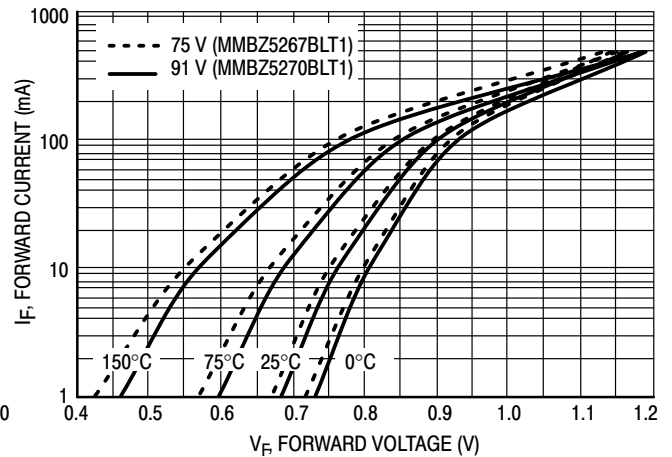
**Figure 1. Temperature Coefficients**  
(Temperature Range -55°C to +150°C)



**Figure 2. Temperature Coefficients**  
(Temperature Range -55°C to +150°C)



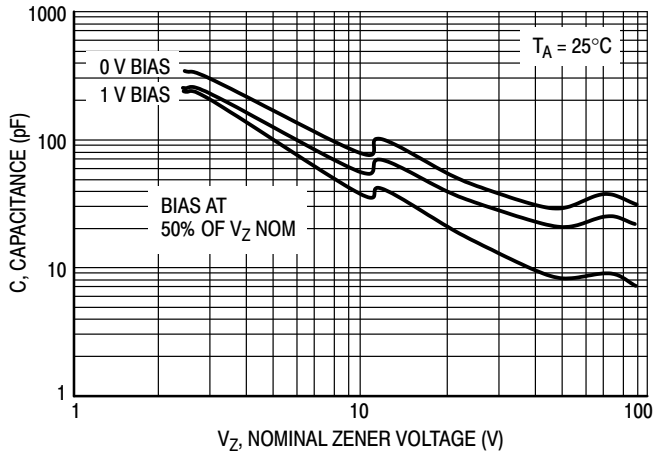
**Figure 3. Effect of Zener Voltage on Zener Impedance**



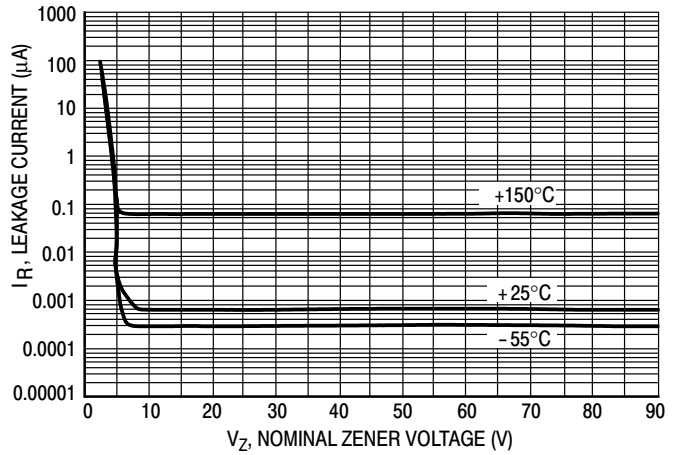
**Figure 4. Typical Forward Voltage**

**BZX84BxxxLT1G, BZX84CxxxLT1G Series, SZBZX84BxxxLT1G, SZBZX84CxxxLT1G Series**

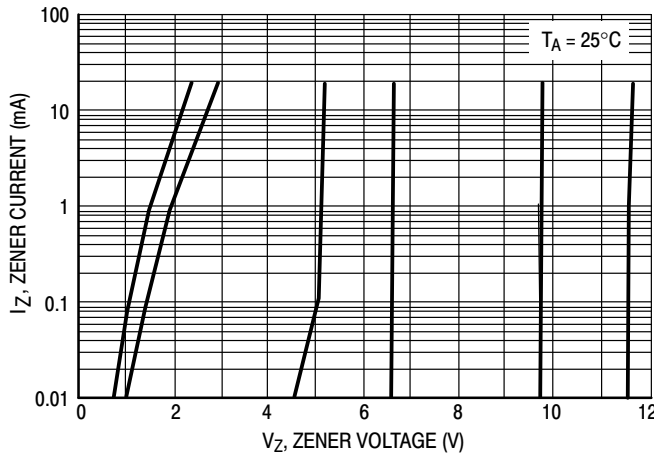
**TYPICAL CHARACTERISTICS**



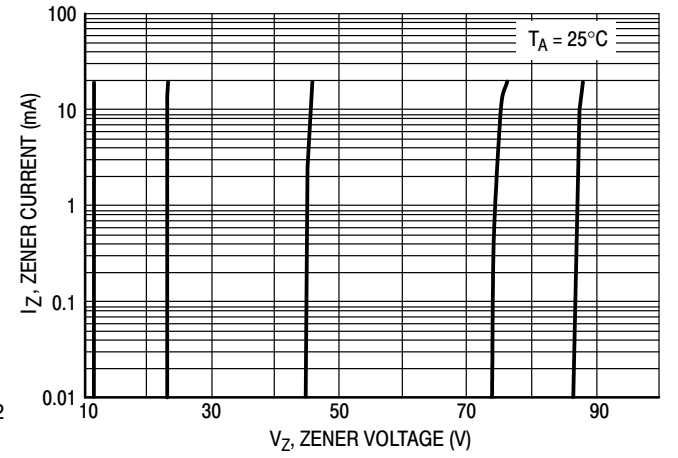
**Figure 5. Typical Capacitance**



**Figure 6. Typical Leakage Current**



**Figure 7. Zener Voltage versus Zener Current  
( $V_Z$  Up to 12 V)**



**Figure 8. Zener Voltage versus Zener Current  
(12 V to 91 V)**

# MECHANICAL CASE OUTLINE PACKAGE DIMENSIONS



**SOT-23 (TO-236)**  
CASE 318  
ISSUE AT

DATE 01 MAR 2023

SCALE 4:1



**NOTES:**

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M,1994.
2. CONTROLLING DIMENSION: MILLIMETERS
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF THE BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

DIM	MILLIMETERS			INCHES		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
A	0.89	1.00	1.11	0.035	0.039	0.044
A1	0.01	0.06	0.10	0.000	0.002	0.004
b	0.37	0.44	0.50	0.015	0.017	0.020
c	0.08	0.14	0.20	0.003	0.006	0.008
D	2.80	2.90	3.04	0.110	0.114	0.120
E	1.20	1.30	1.40	0.047	0.051	0.055
e	1.78	1.90	2.04	0.070	0.075	0.080
L	0.30	0.43	0.55	0.012	0.017	0.022
L1	0.35	0.54	0.69	0.014	0.021	0.027
H <sub>E</sub>	2.10	2.40	2.64	0.083	0.094	0.104
T	0°	---	10°	0°	---	10°

**GENERIC MARKING DIAGRAM\***



- XXX = Specific Device Code
- M = Date Code
- = Pb-Free Package

\*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "▪", may or may not be present. Some products may not follow the Generic Marking.



**RECOMMENDED MOUNTING FOOTPRINT**

\* For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

**STYLES ON PAGE 2**

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**MECHANICAL CASE OUTLINE**  
**PACKAGE DIMENSIONS**



**SOT-23 (TO-236)**  
**CASE 318**  
**ISSUE AT**

DATE 01 MAR 2023

- |   |   |   |   |   |   |
|---|---|---|---|---|---|
| STYLE 1 THRU 5:<br>CANCELLED                            | STYLE 6:<br>PIN 1. BASE<br>2. EMITTER<br>3. COLLECTOR | STYLE 7:<br>PIN 1. EMITTER<br>2. BASE<br>3. COLLECTOR       | STYLE 8:<br>PIN 1. ANODE<br>2. NO CONNECTION<br>3. CATHODE  |   |   |
| STYLE 9:<br>PIN 1. ANODE<br>2. ANODE<br>3. CATHODE      | STYLE 10:<br>PIN 1. DRAIN<br>2. SOURCE<br>3. GATE     | STYLE 11:<br>PIN 1. ANODE<br>2. CATHODE<br>3. CATHODE-ANODE | STYLE 12:<br>PIN 1. CATHODE<br>2. CATHODE<br>3. ANODE       | STYLE 13:<br>PIN 1. SOURCE<br>2. DRAIN<br>3. GATE           | STYLE 14:<br>PIN 1. CATHODE<br>2. GATE<br>3. ANODE          |
| STYLE 15:<br>PIN 1. GATE<br>2. CATHODE<br>3. ANODE      | STYLE 16:<br>PIN 1. ANODE<br>2. CATHODE<br>3. CATHODE | STYLE 17:<br>PIN 1. NO CONNECTION<br>2. ANODE<br>3. CATHODE | STYLE 18:<br>PIN 1. NO CONNECTION<br>2. CATHODE<br>3. ANODE | STYLE 19:<br>PIN 1. CATHODE<br>2. ANODE<br>3. CATHODE-ANODE | STYLE 20:<br>PIN 1. CATHODE<br>2. ANODE<br>3. GATE          |
| STYLE 21:<br>PIN 1. GATE<br>2. SOURCE<br>3. DRAIN       | STYLE 22:<br>PIN 1. RETURN<br>2. OUTPUT<br>3. INPUT   | STYLE 23:<br>PIN 1. ANODE<br>2. ANODE<br>3. CATHODE         | STYLE 24:<br>PIN 1. GATE<br>2. DRAIN<br>3. SOURCE           | STYLE 25:<br>PIN 1. ANODE<br>2. CATHODE<br>3. GATE          | STYLE 26:<br>PIN 1. CATHODE<br>2. ANODE<br>3. NO CONNECTION |
| STYLE 27:<br>PIN 1. CATHODE<br>2. CATHODE<br>3. CATHODE | STYLE 28:<br>PIN 1. ANODE<br>2. ANODE<br>3. ANODE     |   |   |   |   |

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