

## BZX84C3V3 THRU BZX84C33

350mW ZENER DIODE  
3.3 VOLTS THRU 33 VOLTS  
5% TOLERANCE



SOT-23 CASE

# Central™

Semiconductor Corp.

### DESCRIPTION:

The CENTRAL SEMICONDUCTOR BZX84C3V3 Series Silicon Zener Diode is a high quality voltage regulator for use in industrial, commercial, entertainment and computer applications.

### ABSOLUTE MAXIMUM RATINGS

Power Dissipation (@ $T_A=25^{\circ}\text{C}$ )  
Operating and Storage Temperature  
Thermal Resistance

### SYMBOL

$P_D$   
 $T_J, T_{stg}$   
 $\theta_{JA}$

350  
-65 to +150  
357

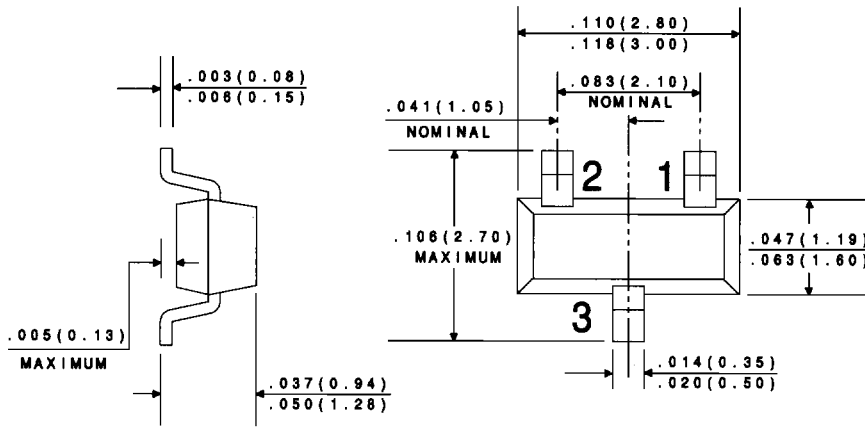
### UNIT

mW  
 $^{\circ}\text{C}$   
 $^{\circ}\text{C}/\text{W}$

### ELECTRICAL CHARACTERISTICS ( $T_A=25^{\circ}\text{C}$ ), $V_F=0.9\text{V MAX @ } I_F=10\text{mA}$ FOR ALL TYPES.

TYPE	Zener Voltage $V_Z @ I_{ZT}$		Test Current $I_{ZT}$	Maximum Zener Impedance			Maximum Reverse Current $I_R @ V_R$		Maximum Zener Current $I_{ZM}$	Maximum Zener Voltage Temperature Coefficient $\theta_{VZ}$	Marking Code
	MIN	MAX		$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_R @ V_R$	$I_{ZM}$				
	Volts	Volts	mA	$\Omega$	$\Omega$	mA	$\mu\text{A}$	Volts	mA	%/ $^{\circ}\text{C}$	
BZX84C3V3	3.1	3.5	5.0	95	600	1.0	5.0	1.0	76	-0.06	W6
BZX84C3V6	3.4	3.8	5.0	90	600	1.0	5.0	1.0	69	-0.06	W7
BZX84C3V9	3.7	4.1	5.0	90	600	1.0	3.0	1.0	64	-0.06	W8
BZX84C4V3	4.0	4.6	5.0	90	600	1.0	3.0	1.0	58	-0.05	W9
BZX84C4V7	4.4	5.0	5.0	80	500	1.0	3.0	2.0	53	-0.03	Z1
BZX84C5V1	4.8	5.4	5.0	60	480	1.0	2.0	2.0	49	0.02	Z2
BZX84C5V6	5.2	6.0	5.0	40	400	1.0	1.0	2.0	45	0.03	Z3
BZX84C6V2	5.8	6.6	5.0	10	150	1.0	3.0	4.0	40	0.04	Z4
BZX84C6V8	6.4	7.2	5.0	15	80	1.0	2.0	4.0	37	0.05	Z5
BZX84C7V5	7.0	7.9	5.0	15	80	1.0	1.0	5.0	33	0.05	Z6
BZX84C8V2	7.7	8.9	5.0	15	80	1.0	0.7	5.0	30	0.06	Z7
BZX84C9V1	8.5	9.6	5.0	15	100	1.0	0.5	6.0	27	0.06	Z8
BZX84C10	9.4	10.6	5.0	20	150	1.0	0.2	7.0	25	0.07	Z9
BZX84C11	10.4	11.6	5.0	20	150	1.0	0.1	8.0	23	0.07	Y1
BZX84C12	11.4	12.7	5.0	25	150	1.0	0.1	8.0	21	0.07	Y2
BZX84C13	12.4	14.1	5.0	30	170	1.0	0.1	8.0	19	0.08	Y3
BZX84C15	13.8	15.6	5.0	30	200	1.0	0.05	10.5	17	0.08	Y4
BZX84C16	15.3	17.1	5.0	40	200	1.0	0.05	11.2	16	0.08	Y5
BZX84C18	16.8	19.1	5.0	45	225	1.0	0.05	12.6	14	0.08	Y6
BZX84C20	18.8	21.2	5.0	55	225	1.0	0.05	14.0	12	0.08	Y7
BZX84C22	20.8	23.3	5.0	55	250	1.0	0.05	15.4	11	0.09	Y8
BZX84C24	22.8	25.6	5.0	70	250	1.0	0.05	16.8	10	0.09	Y9
BZX84C27	25.1	28.9	2.0	80	300	0.5	0.05	18.9	9	0.09	Y10
BZX84C30	28.0	32.0	2.0	80	300	0.5	0.05	21.0	8	0.09	Y11
BZX84C33	31.0	35.0	2.0	80	325	0.5	0.05	23.1	7	0.09	Y12

All dimensions in inches (mm).



LEAD CODE:

- 1) ANODE
- 2) NO CONNECTION
- 3) CATHODE

DATA SHEET