

# Kingtronics®

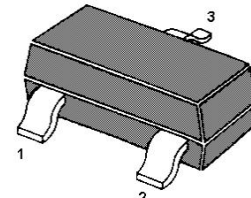
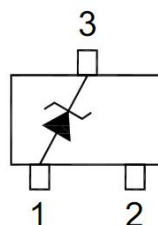
## BZX84C2V0... BZX84C75

### Silicon Planar Zener Diodes

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

- Zener breakdown voltage range - 2.0 V to 75 V
- Package designed for optimal automated board assembly
- Small package size for high density applications



1. Anode 3. Cathode  
SOT-23 Plastic Package

### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	SYMBOL	VALUE	UNITS
Power Dissipation	PD	350	mW
Thermal Resistance, Junction to Ambient <sup>1)</sup>	R $\theta$ JA	417	$^\circ\text{C}/\text{W}$
Junction and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	- 65 to + 150	$^\circ\text{C}$

<sup>1)</sup> Alumina = 0.4 X 0.3 X 0.024 in, 99.5% alumina

**Kingtronics® International Company**

Website: [www.kingtronics.com](http://www.kingtronics.com) Email: [info@kingtronics.com](mailto:info@kingtronics.com) Tel: (852) 8106 7033 Fax: (852) 8106 7099

**Kingtronics**®**BZX84C2V0... BZX84C75**  
Silicon Planar Zener Diodes**Electrical Characteristics ( Ta = 25 °C unless otherwise noted, Vf < 0.9 V at If = 10 mA)**

Type	Marking Code		Zener Voltage Range <sup>1)</sup>				Dynamic Impedance		Reverse Current	
	(Code 1 or Code 2)		VzT			at IzT	ZzT	at IzT	IR	at VR
	Code 1	Code 2	Nom.(V)	Min.(V)	Max.(V)	(mA)	Max.( Ω )	( mA )	Max. (μA)	(V)
BZX84C2V0	A8	-	2	1.8	2.15	5	100	5	120	0.5
BZX84C2V2	B8	-	2.2	2.08	2.33	5	100	5	120	0.7
BZX84C2V4	C8	Z11	2.4	2.2	2.6	5	100	5	50	1
BZX84C2V7	D8	Z12	2.7	2.5	2.9	5	100	5	20	1
BZX84C3V0	E8	Z13	3	2.8	3.2	5	95	5	10	1
BZX84C3V3	F8	Z14	3.3	3.1	3.5	5	95	5	5	1
BZX84C3V6	H8	Z15	3.6	3.4	3.8	5	90	5	5	1
BZX84C3V9	J8	Z16	3.9	3.7	4.1	5	90	5	3	1
BZX84C4V3	K8	Z17	4.3	4	4.6	5	90	5	3	1
BZX84C4V7	M8	Z1	4.7	4.4	5	5	80	5	3	2
BZX84C5V1	N8	Z2	5.1	4.8	5.4	5	60	5	2	2
BZX84C5V6	P8	Z3	5.6	5.2	6	5	40	5	1	2
BZX84C6V2	R8	Z4	6.2	5.8	6.6	5	10	5	3	4
BZX84C6V8	X8	Z5	6.8	6.4	7.2	5	15	5	2	4
BZX84C7V5	Y8	Z6	7.5	7	7.9	5	15	5	1	5
BZX84C8V2	Z8	Z7	8.2	7.7	8.7	5	15	5	0.7	5
BZX84C9V1	A9	Z8	9.1	8.5	9.6	5	15	5	0.5	6
BZX84C10	B9	Z9	10	9.4	10.6	5	20	5	0.2	7
BZX84C11	C9	Y1	11	10.4	11.6	5	20	5	0.1	8
BZX84C12	D9	Y2	12	11.4	12.7	5	25	5	0.1	8
BZX84C13	E9	Y3	13	12.4	14.1	5	30	5	0.1	8
BZX84C15	F9	Y4	15	13.8	15.6	5	30	5	0.05	10.5
BZX84C16	H9	Y5	16	15.3	17.1	5	40	5	0.05	11.2
BZX84C18	J9	Y6	18	16.8	19.1	5	45	5	0.05	12.6
BZX84C20	K9	Y7	20	18.8	21.2	5	55	5	0.05	14
BZX84C22	M9	Y8	22	20.8	23.3	5	55	5	0.05	15.4
BZX84C24	N9	Y9	24	22.8	25.6	5	70	5	0.05	16.8
BZX84C27	P9	Y10	27	25.1	28.9	2	80	2	0.05	18.9
BZX84C30	R9	Y11	30	28	32	2	80	2	0.05	21
BZX84C33	X9	Y12	33	31	35	2	80	2	0.05	23.1
BZX84C36	Y9	Y13	36	34	38	2	90	2	0.05	25.2
BZX84C39	Z9	Y14	39	37	41	2	130	2	0.05	27.3
BZX84C43	A0	Y15	43	40	46	2	150	2	0.05	30.1
BZX84C47	B0	Y16	47	44	50	2	170	2	0.05	32.9
BZX84C51	C0	Y17	51	48	54	2	180	2	0.05	35.7
BZX84C56	D0	Y18	56	52	60	2	200	2	0.05	39.2
BZX84C62	E0	Y19	62	58	66	2	215	2	0.05	43.4
BZX84C68	F0	Y20	68	64	72	2	240	2	0.05	47.6
BZX84C75	H0	Y21	75	70	79	2	255	2	0.05	52.5

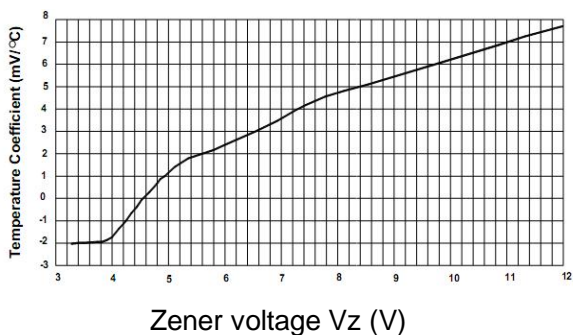
<sup>1)</sup> Tested with pulses tp = 20 ms.**Kingtronics**® International Company

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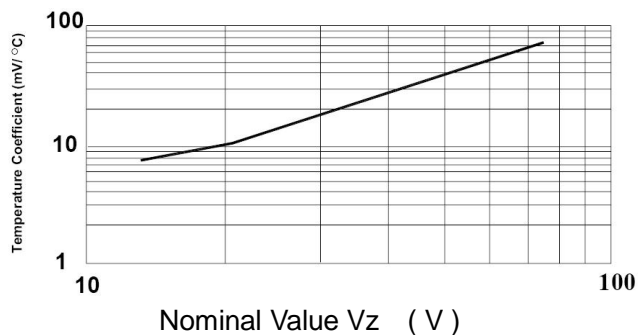
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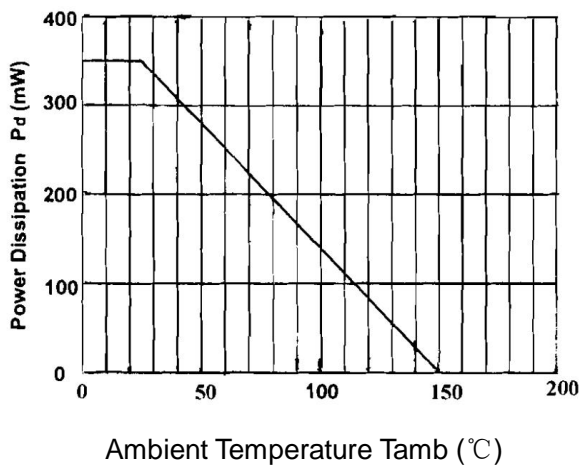
Temperature Coefficient



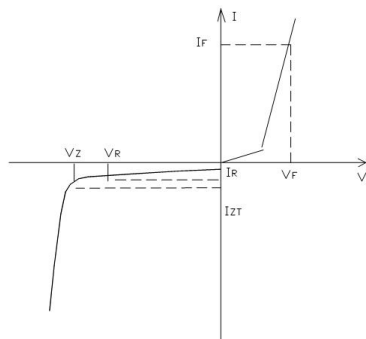
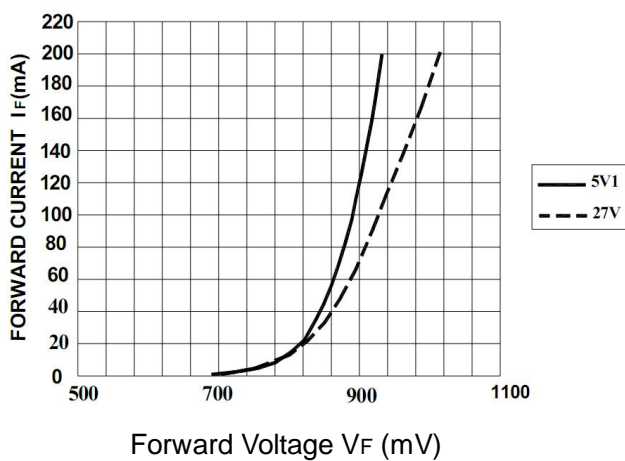
Temperature Coefficient



Power Derating Curve



Typical Forward Voltage



Zener Voltage Regulator

Note: Specifications are subject to change without notice.

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