Vishay Semiconductors



Туре	Marking	VZ	Z _{ZT}	@ I _{ZT}	Z _{ZK}	@ I _{ZK}	Т _С	I _R	@V _R
BZX84C		V	Ω	mA	Ω	mA	%/°C	μA	V
		@ I _{ZT}							
2V7	Z12/KZC	2.5 to 2.9	100	5.0	600	1.0	- 0.065	20	1.0
3V0	Z13/KZD	2.8 to 3.2	100	5.0	600	1.0	- 0.060	10	1.0
3V3	Z14/KZE	3.1 to 3.5	95	5.0	600	1.0	- 0.055	5.0	1.0
3V6	Z15/KZF	3.4 to 3.8	95	5.0	600	1.0	- 0.055	5.0	1.0
3V9	Z16/KZG	3.7 to 4.1	90	5.0	600	1.0	- 0.050	3.0	1.0
4V3	Z17/KZH	4.0 to 4.6	90	5.0	600	1.0	- 0.035	3.0	1.0
4V7	Z1/KZ1	4.4 to 5.0	80	5.0	500	1.0	- 0.015	4.0	2.0
5V1	Z2/KZ2	4.8 to 5.4	60	5.0	480	1.0	+0.005	2.0	2.0
5V6	Z3/KZ3	5.2 to 6.0	40	5.0	400	1.0	+0.020	1.0	2.0
6V2	Z4/KZ4	5.8 to 6.6	10	5.0	150	1.0	+0.030	3.0	4.0
6V8	Z5/KZ5	6.4 to 7.2	15	5.0	80	1.0	+0.045	2.0	4.0
7V5	Z6/KZ6	7.0 to 7.9	15	5.0	80	1.0	+0.050	1.0	5.0
8V2	Z7/KZ7	7.7 to 8.7	15	5.0	80	1.0	+0.055	0.7	5.0
9V1	Z8/KZ8	8.5 to 9.6	15	5.0	100	1.0	+0.065	0.5	6.0
10	Z9/KZ9	9.4 to 10.6	20	5.0	150	1.0	+0.065	0.2	7.0
11	Y1/KY1	10.4 to 11.6	20	5.0	150	1.0	+0.070	0.1	8.0
12	Y2/KY2	11.4 to 12.7	25	5.0	150	1.0	+0.075	0.1	8.0
13	Y3/KY3	12.4 to 14.1	30	5.0	170	1.0	+0.080	0.1	8.0
15	Y4/KY4	13.8 to 15.6	30	5.0	200	1.0	+0.080	0.05	0.7V _{Znom}
16	Y5/KY5	15.3 to 17.1	40	5.0	200	1.0	+0.090	0.05	0.7V _{Znom}
18	Y6/KY6	16.8 to 19.1	45	5.0	225	1.0	+0.090	0.05	0.7V _{Znom}
20	Y7/KY7	18.8 to 21.2	55	5.0	225	1.0	+0.090	0.05	0.7V _{Znom}
22	Y8/KY8	20.8 to 23.3	55	5.0	250	1.0	+0.090	0.05	0.7V _{Znom}
24	Y9/KY9	22.8 to 25.6	70	5.0	250	1.0	+0.090	0.05	0.7V _{Znom}
27	Y10/KYA	25.1 to 28.9	80	2.0	300	0.5	+0.090	0.05	0.7V _{Znom}
30	Y11/KYB	28 to 32	80	2.0	300	0.5	+0.090	0.05	0.7V _{Znom}
33	Y12/KYC	31 to 35	80	2.0	325	0.5	+0.090	0.05	0.7V _{Znom}
36	Y13/KYD	34 to 38	90	2.0	350	0.5	+0.090	0.05	0.7V _{Znom}
39	Y14/KYE	37 to 41	130	2.0	350	0.5	+0.110	0.05	0.7V _{Znom}
43	Y15/KYF	40 to 46	150	2.0	375	0.5	+0.110	0.05	0.7V _{Znom}
47	Y16/KYG	44 to 50	170	2.0	375	0.5	+0.110	0.05	0.7V _{Znom}
51	Y17/KYH	48 to 54	180	2.0	400	0.5	+0.110	0.05	0.7V _{Znom}

1) Device mounted on ceramic substrate 8mmx10mmx0.7mm2) V_Z measured at I_{ZT} using a pulse test. I_Z pulse width = 5 ms. Standard voltage tolerance is 5%.



Vishay Semiconductors





Figure 1. Z-Current vs. Z-Voltage



Figure 2. Z-Current vs. Z-Voltage



Figure 3. Z-Current vs. Z-Voltage



Figure 4. Total Power Dissipation vs. Ambient Temperature



Figure 5. Diode Capacitance vs. Z–Voltage

Vishay Semiconductors

Dimensions in mm





1	\square
	Ψ
nnical ording	drawings to DIN

14370
14570

SUI-23					
Dim	Min	Max			
Α	0.37	0.50			
В	1.19	1.40			
C	2.10	2.50			
D	0.89	1.05			
E	0.45	0.61			
G	1.78	2.05			
Н	2.79	3.05			
J	0.013	0.15			
K	0.89	1.10			
L	0.45	0.61			
М	0.076	0.130			
All Dimensions in mm					

Case: SOT23, molded plastic Mounting position: any Approx. weight: 0.008 grams





Vishay Semiconductors

Ozone Depleting Substances Policy Statement

It is the policy of Vishay Semiconductor GmbH to

1. Meet all present and future national and international statutory requirements.

2. Regularly and continuously improve the performance of our products, processes, distribution and operating systems with respect to their impact on the health and safety of our employees and the public, as well as their impact on the environment.

It is particular concern to control or eliminate releases of those substances into the atmosphere which are known as ozone depleting substances (ODSs).

The Montreal Protocol (1987) and its London Amendments (1990) intend to severely restrict the use of ODSs and forbid their use within the next ten years. Various national and international initiatives are pressing for an earlier ban on these substances.

Vishay Semiconductor GmbH has been able to use its policy of continuous improvements to eliminate the use of ODSs listed in the following documents.

- 1. Annex A, B and list of transitional substances of the Montreal Protocol and the London Amendments respectively
- 2. Class I and II ozone depleting substances in the Clean Air Act Amendments of 1990 by the Environmental Protection Agency (EPA) in the USA
- 3. Council Decision 88/540/EEC and 91/690/EEC Annex A, B and C (transitional substances) respectively.

Vishay Semiconductor GmbH can certify that our semiconductors are not manufactured with ozone depleting substances and do not contain such substances.

We reserve the right to make changes to improve technical design and may do so without further notice.

Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer. Should the buyer use Vishay-Semiconductors products for any unintended or unauthorized application, the buyer shall indemnify Vishay-Semiconductors against all claims, costs, damages, and expenses, arising out of, directly or indirectly, any claim of personal damage, injury or death associated with such unintended or unauthorized use.

> Vishay Semiconductor GmbH, P.O.B. 3535, D-74025 Heilbronn, Germany Telephone: 49 (0)7131 67 2831, Fax number: 49 (0)7131 67 2423

Document Number 85606 Rev. A2, 12-Mar-01