TRANSIENT SUPPRESSOR DIODES

A range of diffused silicon diodes in a plastic envelope intended for use in the protection of electrical and electronic equipment against voltage transients.
The series consists of the following types: BZW70-5V6 to BZW70-62.

QUICK REFERENCE DATA

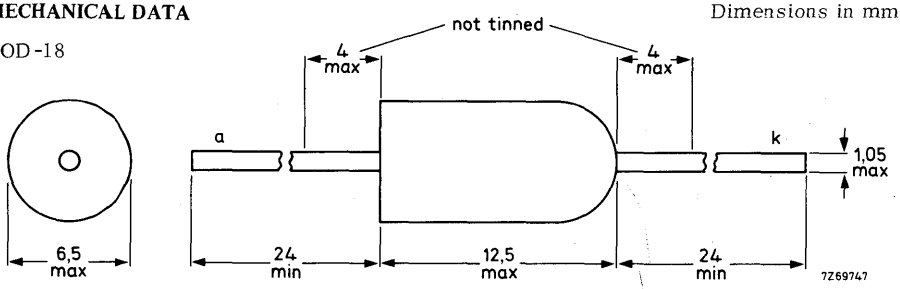
Stand-off voltage (15% range) *	V_R	5,6 to 62	V
Reverse breakdown voltage	$V_{(BR)R}$	6,4 to 70	V
Non-repetitive peak reverse power dissipation; exponential pulse	P_{RSM}	max. 700	W

* The stand-off voltage is the maximum reverse voltage recommended for continuous operation; at this value non-conduction is ensured.

MECHANICAL DATA

Dimensions in mm

SOD-18



The rounded end indicates the cathode.

The sealing of the plastic envelope withstands the accelerated damp heat test of IEC recommendation 68-2 (test D, severity IV, 6 cycles).

CHARACTERISTICS – WHEN USED AS TRANSIENT SUPPRESSOR DIODES; T_{amb} = 25 °C

clamping voltage t_p = 500 μs exp. pulse at non-repetitive peak reverse current			reverse current at recommended stand-off voltage		BZW70-...
$V_{(CL)R}$ V		I_{RSM} A	I_R mA	V_R V	
typ.	max.		max.		
9	10	20	0.5	5.6	5V6
10	11.2	20	0.5	6.2	6V2
11	12.5	20	0.5	6.8	6V8
12	14	20	0.1	7.5	7V5
13.5	15.5	20	0.1	8.2	8V2
15	17.5	20	0.1	9.1	9V1
17	19	20	0.1	10	10
19	21	20	0.1	11	11
21	23	20	0.1	12	12
23	26	20	0.1	13	13
22	26	10	0.1	15	15
25	29	10	0.1	16	16
28	33	10	0.1	18	18
32	38	10	0.1	20	20
36	43	10	0.1	22	22
41	48	10	0.1	24	24
47	54	10	0.1	27	27
44	52	5	0.1	30	30
49	58	5	0.1	33	33
56	65	5	0.1	36	36
63	72	5	0.1	39	39
71	82	5	0.1	43	43
80	93	5	0.1	47	47
89	104	5	0.1	51	51
98	116	5	0.1	56	56
104	116	5	0.1	62	62