

TRANSIENT SUPPRESSOR DIODES

A range of diffused silicon diodes in a DO-5 metal envelope intended for use in the protection of the electrical and electronic equipment against voltage transients.

The series consists of the following types:

Normal polarity (cathode to stud): BZW91 - 6V2 to 62

Reverse polarity (anode to stud) : BZW91 - 6V2R to 62R

QUICK REFERENCE DATA

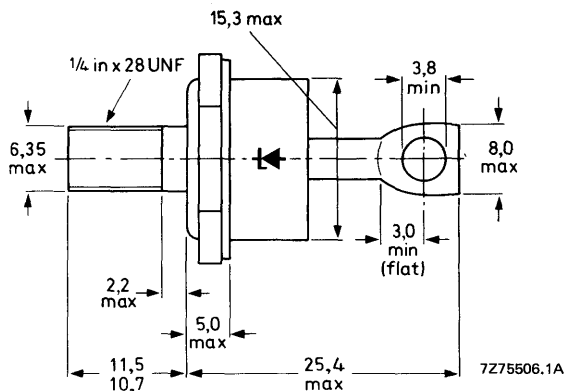
Stand-off voltage (15% range) *	V_R	6,2 to 62	V
Reverse breakdown voltage	$V_{(BR)R}$	7,0 to 70	V
Non-repetitive peak reverse power dissipation; $T_j = 25^\circ\text{C}$ prior to surge; $t_p = 100 \mu\text{s}$ (exponential pulse)	P_{RSM}	max.	27 kW

* 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

DO-5



Supplied with device: 1 nut, 1 lock washer

Nut dimensions across the flats: 11,1 mm

Diameter of clearance hole: max. 6,5 mm

Net mass: 16,5 kg

Accessories available: 56264A; 56309B; 56309R

The mark shown applies to the normal polarity types.

Torque on nut: min. 1,7 Nm.

(17 kgcm)

max. 3,5 Nm

(35 kgcm)

CHARACTERISTICS — WHEN USED AS TRANSIENT SUPPRESSOR DIODES; $T_{mb} = 25^{\circ}\text{C}$

clamping voltage $t_p = 500 \mu\text{s}$ exp. pulse $V_{(CL)R}$ V		at non-repetitive peak reverse current I_{RSM} A	reverse current at recommended stand-off voltage I_R mA V_R V		BZW91- . . .
typ.	max.		max.		
9.5	10.5	150	20	6.2	6V2(R)
10	11	150	20	6.8	6V8(R)
11	12.5	150	5	7.5	7V5(R)
12	13.5	150	5	8.2	8V2(R)
13	15	150	5	9.1	9V1(R)
14.5	17	150	5	10	10(R)
16	19	150	5	11	11(R)
17.5	22	150	5	12	12(R)
19	26	150	5	13	13(R)
22	28	100	5	15	15(R)
24	31	100	5	16	16(R)
26	34	100	5	18	18(R)
28	37	100	5	20	20(R)
31	40	100	5	22	22(R)
34	44	100	5	24	24(R)
38	48	100	5	27	27(R)
40	52	50	5	30	30(R)
44	56	50	10	33	33(R)
49	61	50	10	36	36(R)
54	66	50	10	39	39(R)
60	72	50	10	43	43(R)
66	79	50	10	47	47(R)
72	87	50	10	51	51(R)
79	97	50	10	56	56(R)
86	97	50	10	62	62(R)