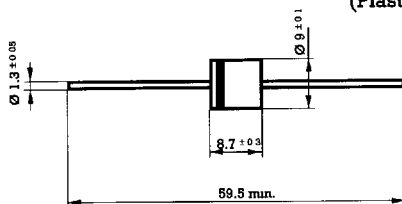




FAGOR ELECTRONICS T-11-23

Unidirectional Glass Passivated Transient Voltage Suppressor Diodes

Dimensions in mm.

P-6
(Plastic)

Mounting instructions

1. Min. distance from body to soldering point, 4 mm.
2. Max. solder temperature, 350°C.
3. Max. soldering time, 3,5 sec.
4. Do not bend lead at a point closer than 2 mm. to the body.

Peak Pulse
Power Rating
At 1ms. Exp.

5.000 W

Reverse
stand-off
Voltage

8.2 ÷ 180 V

HYPERECTIFIER®

- Glass passivated junction
- In process of evaluation UL 1449
- Low Capacitance AC signal protection
- Molded case
- Diffused junction
- The plastic material carries U/L recognition 94 V-0
- Terminals: Axial leads

Maximum Ratings, according to IEC publication No. 134

P_{pp}	Peak pulse power for 1 msec. exponential pulse	5.000 W
I_{FSM}	Non repetitive surge peak forward current ($t = 10$ msec.)	500 A
T_j	Junction temperature	150 °C
T_{stg}	Storage temperature range	- 65 to + 175 °C

Electrical Characteristics at $T_{amb} = 25^\circ\text{C}$

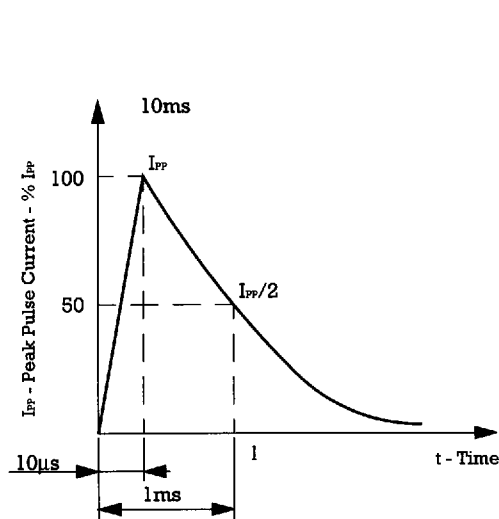
V_F	Max. Forward voltage drop at $I_F = 100$ A	1.5 V
R_{thj-a}	Max. Thermal resistance ($l = 10$ mm.)	10° C/W

Type	Maximum Reverse Current		Breakdown Voltage				Max Clamping Voltage	
	I_{RM}	at V_{RM}	(1)	$V_{(BR)}$	at I_R		$V_{(CL)}$	at I_{FP}
	(μA)	(V)	Min.	Nom.	Max	(mA)	(V)	(A)
Unidirectional								
BZW50-8V2	50	8.2	9.1	10.1	11.1	1	15.3	327
BZW50-10	10	10	11.1	12.4	13.6	1	18.8	266
BZW50-12	10	12	13.3	14.8	16.3	1	22	227
BZW50-15	10	15	16.6	18.5	20.4	1	26.9	186
BZW50-18	10	18	20	22.2	24.4	1	32.2	155
BZW50-22	10	22	24.4	27.1	29.8	1	39.4	127
BZW50-27	10	27	30	33.3	36.6	1	48.3	103
BZW50-33	10	33	36.6	40.7	44.7	1	59	85
BZW50-39	10	39	43.3	48.1	53	1	69.4	72
BZW50-47	10	47	52	57.8	63.6	1	83.2	60.1
BZW50-56	10	56	62.2	69.1	76	1	99.6	50
BZW50-68	10	68	75.6	84	92.4	1	121	41
BZW50-82	10	82	91	101.2	111	1	145	34
BZW50-100	10	100	111	123.5	136	1	179	28
BZW50-120	10	120	133	148.1	163	1	215	23
BZW50-150	10	150	166	185.2	204	1	269	19
BZW50-180	10	180	200	222	244	1	322	16

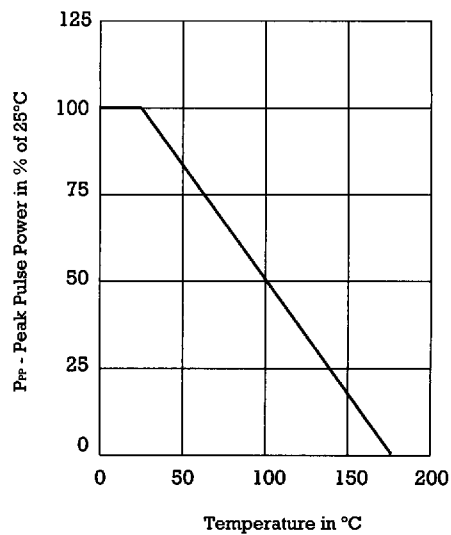
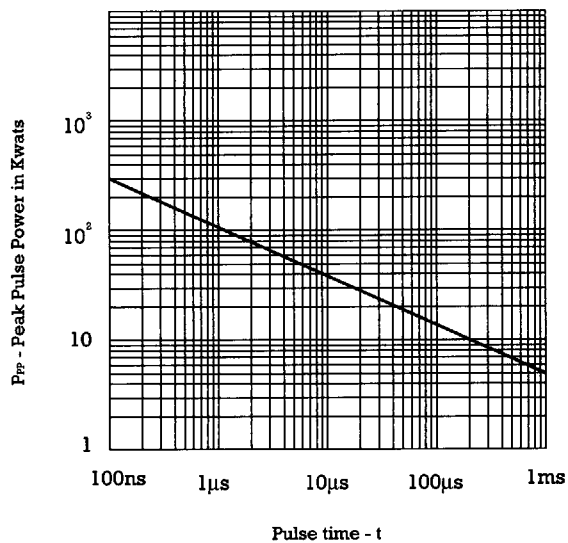
(1) Tested with pulses

Pulse test $t_p \leq 50$ ms, $\delta < 2\%$

FAGOR ELECTRONICS

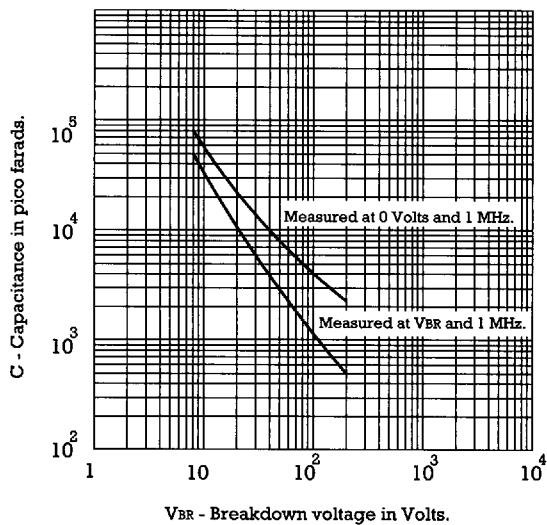


Pulse wave form 10/1000

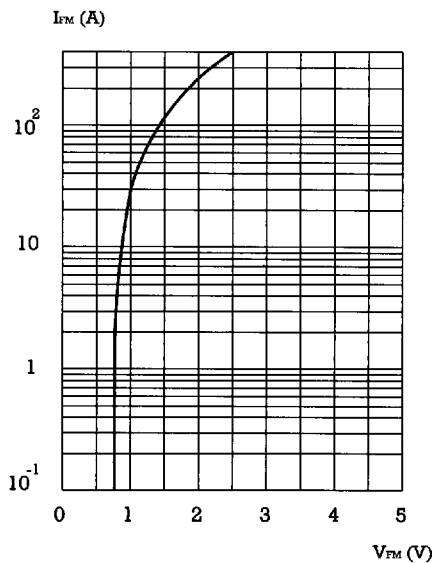
Derating curve for $T_j = 150^\circ\text{C}$ 

Peak Pulse Power vs Pulse Time.

FAGOR ELECTRONICS



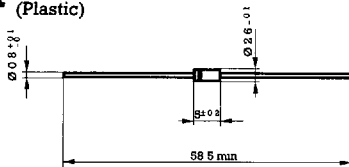
Typical Capacitance vs Breakdown voltage

Peak Forward Current vs.
Peak Forward voltage Drop (typical value)

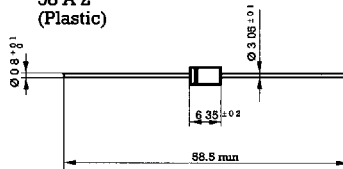
Package Outlines

Dimensions in mm.

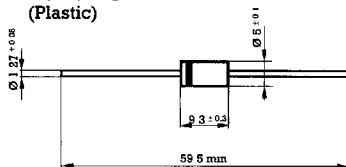
1 DO-41 (Plastic)



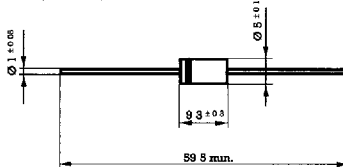
2 DO-15 F-126 58 A 2 (Plastic)



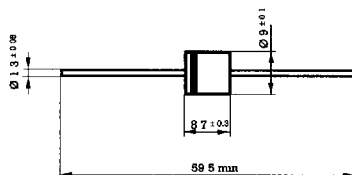
3 DO-27 A DO-201 AD (Plastic)



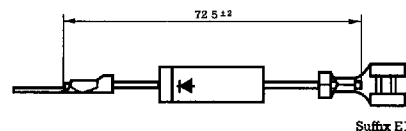
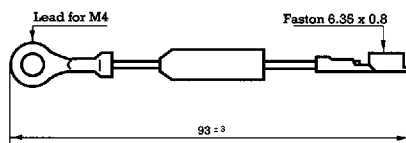
4 DO-201 AE (Plastic)



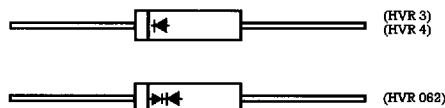
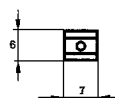
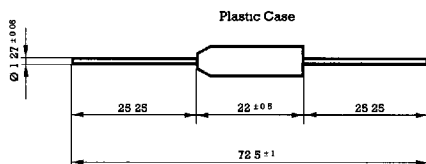
5 P-6 (Plastic)



7



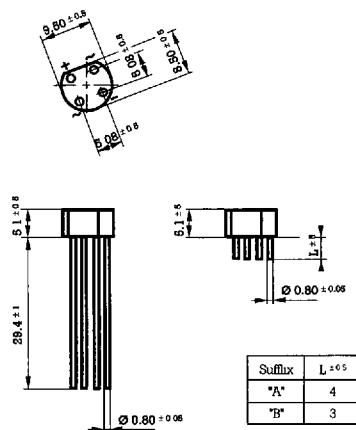
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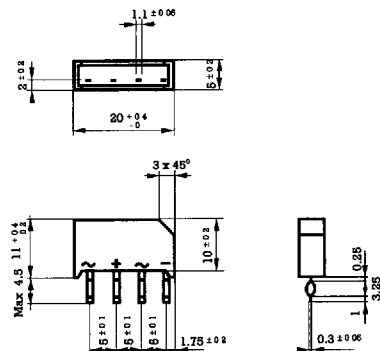
Package Outlines

Dimensions in mm.

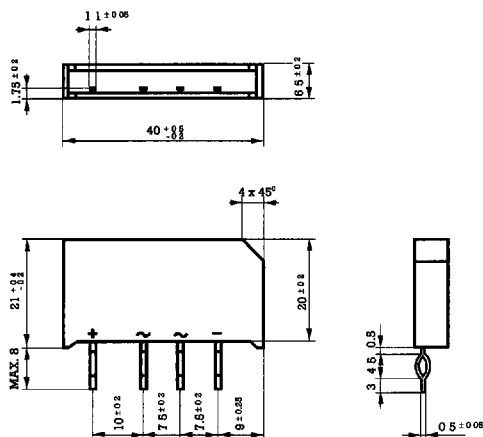
8



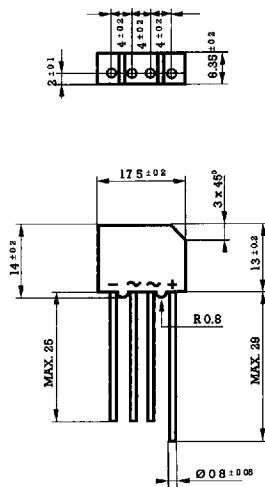
9



10



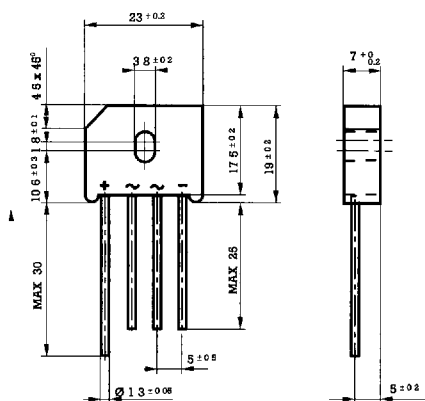
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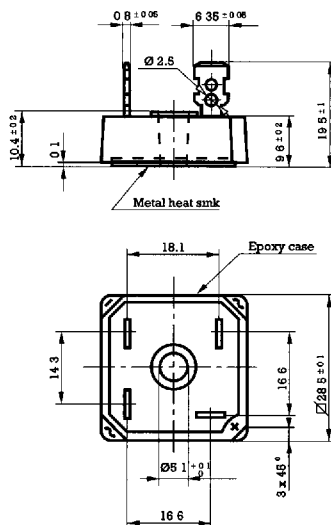
Package Outlines

Dimensions in mm.

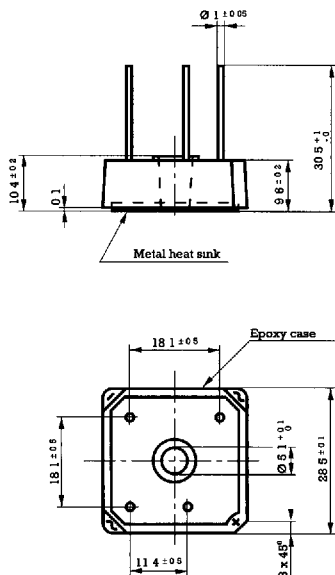
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13

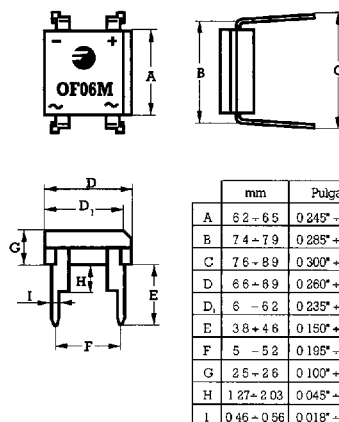


14



15

DF - M



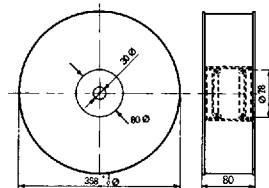
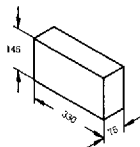
	mm	Pulgadas
A	6.2 - 6.5	0.245" - 0.255"
B	7.4 - 7.9	0.285" - 0.315"
C	7.6 - 8.9	0.300" - 0.350"
D	6.6 - 8.9	0.260" - 0.270"
D ₁	6 - 6.2	0.235" - 0.245"
E	3.8 - 4.6	0.150" - 0.180"
F	5 - 5.2	0.195" - 0.205"
G	2.5 - 2.6	0.100" - 0.102"
H	1.27 - 2.03	0.045" - 0.080"
I	0.46 - 0.56	0.018" - 0.022"

Dimensions in mm

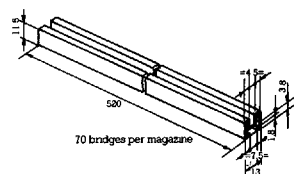
REEL PACKAGING (Under IEC-CEI 286-1 and RS-296 D)

CASE TYPE (OUTLINE)	REEL DIMENSIONS					UNITS PER REEL	APROX GROSS WEIGHT PER REEL PACKED
	K	b	S	m	a		
(1) DO41 (Plastic)	6.4	53 ±.2	5 ±.05	1.2	6 ±.1	6000	2.5 kg (5.52 Lbs.)
(2) DO15 (Plastic)	7.85	53 ±.2	5 ±.05	1.2	6 ±.1	5000	2.3 kg (5.07 Lbs.)
(3) DO201AD (Plastic) (4) DO201AE (Plastic)	11	53 ±.2	10 ±.05	1.2	6 ±.1	1500	2 kg (4.41 Lbs.)
(5) P-6 (Plastic)	11.27	53 ±.2	10 ±.05	1.2	6 ±.1	1000	3 kg (6.61 Lbs.)

REEL PACKAGING

AMMO BOX PACKAGING (SUFFIX "AMP")

OUTLINES	BOX SIZE	UNITS PER BOX	APROX GROSS WEIGHT PER REEL PACKED
D0-41 (Plastic)	330 x 75 x 145	6000	2 20 kg (4 85 Lbs)
D0-15 (Plastic)	330 x 75 x 145	5000	2 20 kg (4 85 Lbs)
D0-201AD (Plastic)	330 x 75 x 145	1500	1 85 kg (4 08 Lbs)
D0-201ED (Plastic)	330 x 75 x 145	1500	1 85 kg (4 08 Lbs)
P-600	330 x 75 x 145	500	1 2 kg (2 65 Lbs)

DIL PACKAGING
ANTISTATIC PLASTIC TUBS

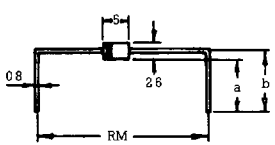
BOX PACKAGING

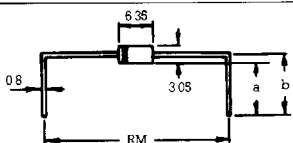
DEVICE TYPE (OUTLINE)	BOX SIZE	UNITS PER BOX	APROX GROSS WEIGHT
(6) (7) HVR3. HVR4 HVR082 (7) = Suffix E1	70 x 105 x 205	(6) 250 (7) 200	0 710 kg (1 560 Lbs)
(8) B C800, C1000, C1500 R, WL F, WF / (*A*)	70 x 105 x 205	500 / (1.500)	0 650 kg (1 430 Lbs)
(9) B C1500/1000, C2000/1500	70 x 105 x 205	500	1 100 kg (2 425 Lbs)
(10) B . C3700/2200	70 x 105 x 205	100	1 100 kg (2 425 Lbs)
(10) B . C500/3300, C5000/3300-400	70 x 105 x 205	100	1 100 kg (2 425 Lbs)
(11) FBP, 2FBP	215 x 85 x 335	500	2 10 kg (4.62 Lbs)
(12) FBU 4 - 6 - 8	270 x 90 x 400	500	4 20 kg (9 23 Lbs)
(13) FB 10 - 15 - 25 - 35 - 50 B 10 - 15 - 25 - 35 - 50	70 x 105 x 205	50	0 850 kg (1.872 Lbs)
(14) FB 10L - 15L - 25L B 10L - 15L - 25L	35 x 135 x 205	20	0.350 kg (0.770 Lbs)
DF - M	540 x 145 x 110	5 600	4 0 kg (8 82 Lbs.)

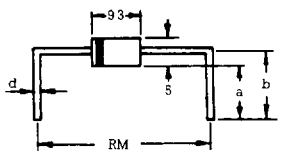
Standard lead forming specifications

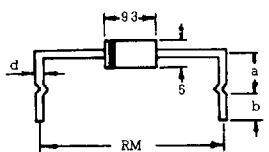
Dimensions in mm.

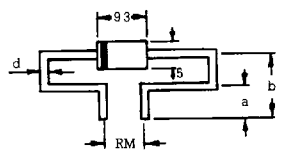
Plastic Cases

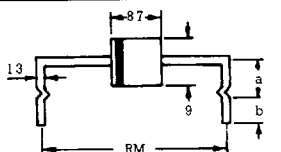
DO-41		Type	Dimensions		
			a	b	RM
		C2-3	3 ± 0.5	43 ± 0.5	10 ± 0.5
		C2-5	10 ± 0.5	113 ± 0.5	10 ± 0.5
		C2-8	4 ± 0.5	53 ± 0.5	10 ± 0.5

DO-15		Type	Dimensions		
			a	b	RM
		C2-3	3 ± 0.5	45 ± 0.5	10 ± 0.5
		C2-5	10 ± 0.5	115 ± 0.5	10 ± 0.5
		C2-8	4 ± 0.5	55 ± 0.5	10 ± 0.5

DO-201AD DO-27A (d = 1.27)		DO-201AE (d = 1)	Type	Dimensions		
				a	b	RM
			C2-1	35 ± 0.5	6 ± 0.5	15 ± 0.5
			C2-2	4 ± 0.5	65 ± 0.5	15 ± 0.5
			C2-4	75 ± 0.3	10 ± 0.3	178 ± 0.15
			C2-6	35 ± 0.5	6 ± 0.5	175 ± 0.5
			C2-7	45 ± 0.5	7 ± 0.5	21 ± 0.5
			C2-11	45 ± 0.5	7 ± 0.5	175 ± 0.5
			C2-12	125 ± 0.5	15 ± 0.5	175 ± 0.5
			C2-13	16 ± 0.5	185 ± 0.5	152 ± 0.5
			C2-14	75 ± 0.5	10 ± 0.5	15 ± 0.5
			C2-17	4 ± 0.5	85 ± 0.5	20 ± 0.5

DO-201AD DO-27A (d = 1.27)		DO-201AE (d = 1)	Type	Dimensions		
				a	b	RM
			C6-1	10 ± 0.5	5 ± 0.5	152 ± 0.5
			C6-2	10 ± 0.5	5 ± 0.5	175 ± 0.5
			C6-3	7 ± 0.5	5 ± 0.5	21 ± 0.5
			C6-4	135 ± 0.5	5 ± 0.5	152 ± 0.5
			C6-5	10 ± 0.5	5 ± 0.5	20 ± 0.5

DO-201AD DO-27A (d = 1.27)		DO-201AE (d = 1)	Type	Dimensions		
				a	b	RM
			C4-2	45 ± 0.3	10.5 ± 0.3	75 ± 0.5

P-6		Type	Dimensions		
			a	b	RM
		C6-1	10 ± 0.5	5 ± 0.5	152 ± 0.5
		C6-2	10 ± 0.5	5 ± 0.5	175 ± 0.5
		C6-3	7 ± 0.5	5 ± 0.5	21 ± 0.5
		C6-4	135 ± 0.5	5 ± 0.5	152 ± 0.5