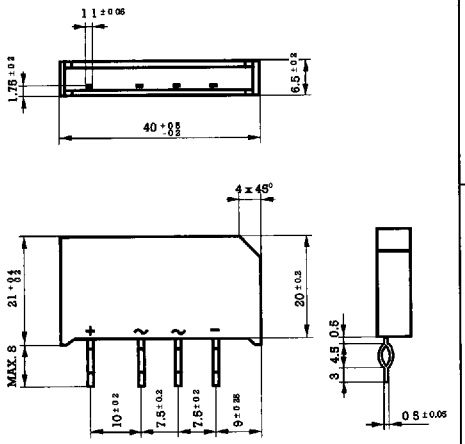
5 Amp. Silicon Bridge Rectifiers in Plastic Case

Dimensions in mm. Plastic Case



Voltage
100 to 1.000 V.

Current
5.0 A.

- In process of evaluation UL 1449
- Low Cost
- Case: Epoxy encapsulation
- Terminals: Radial in-line
- Ideal for P.C.B.

Lead and polarity identifications
High surge current capability

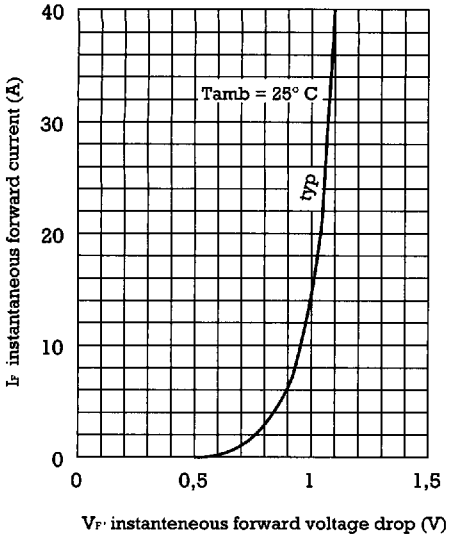
Maximum Ratings, according to IEC publication No. 134

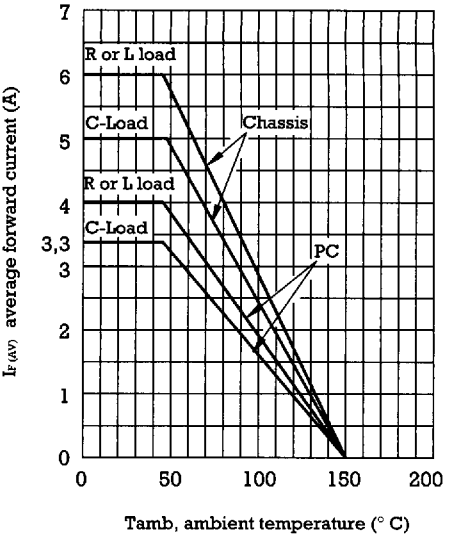
		B40 C5000/3300	B80 C5000/3300	B125 C5000/3300	B250 C5000/3300	B380 C5000/3300	B500 C5000/3300
V_{RRM}	Peak recurrent reverse voltage (V)	100	200	300	600	900	1000
V_N	Recommended input voltage (V_{RMS})	40	80	125	250	380	500
$I_{F(AV)}$	Forward current at Tamb = 45 °C - PC mounted R load	4.0 A					
	C load	3.3 A					
	- Chassis mounted R load	6.0 A					
	C load	5.0 A					
I_{FRM}	Recurrent peak forward current	30 A					
I_{FSM}	10 ms. peak forward surge current	250 A					
I^2t	I^2t value for fusing (t = 10 ms)	300 A^2S					
T_j	Max. operating temperature	+ 150°C					
T_{stg}	Storage temperature range	– 40 to + 150 °C					

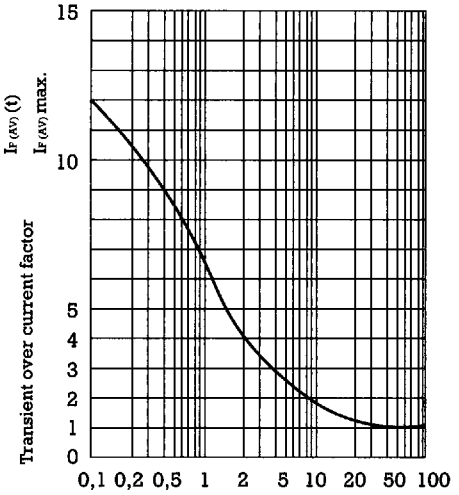
Electrical Characteristics at Tamb = 25°C

V_F	Max. forward voltage drop per arm at I_F = 5 A	1 V
I_R	Max. reverse current per arm at V_{RRM}	20 µ A

Characteristic Curves



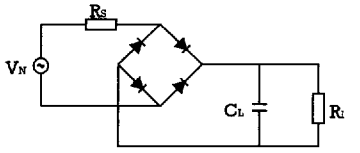




OPERATION WITH CAPACITIVE LOAD

Limit values of R_S and C_L for adequate protection against switching transients.

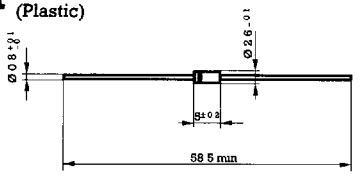
Recommended input voltage V_{RMS}	Min.RS Tol ± 10 % Ohms	Max. CL Tol + 50 % - 20 % µ F
40	0,5	10.000
80	1,0	5,000
125	1,5	2.500
250	3,0	1.200
380	5,0	800
500	6,0	600



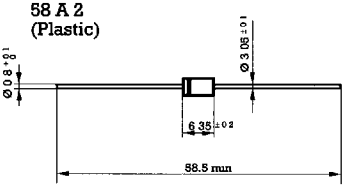
Package Outlines

Dimensions in mm.

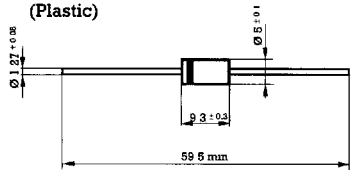
1 DO-41
(Plastic)



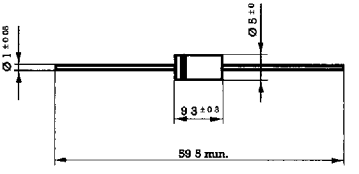
2 DO-15
F-126
58 A 2
(Plastic)



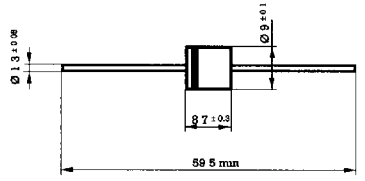
3 DO-27 A
DO-201 AD
(Plastic)



4 DO-201 AE
(Plastic)



5 P-6
(Plastic)



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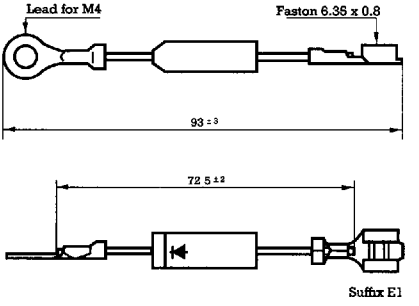
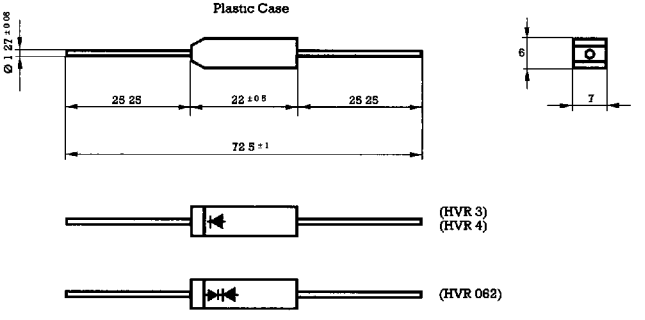


Suffix E1

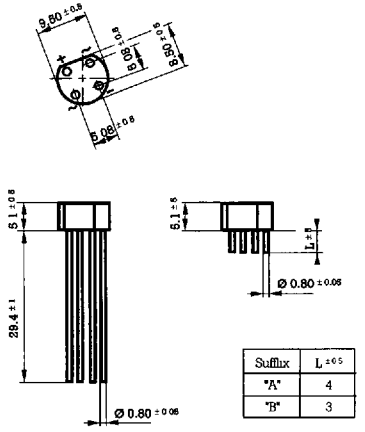
6



Package Outlines

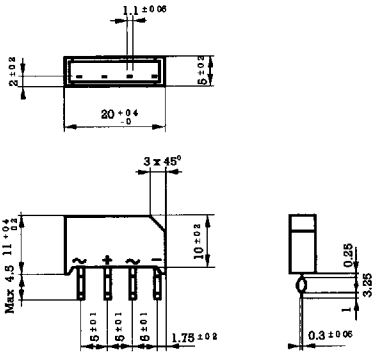
Dimensions in mm.

8



Suffix	L ±0.5
"A"	4
"B"	3

9



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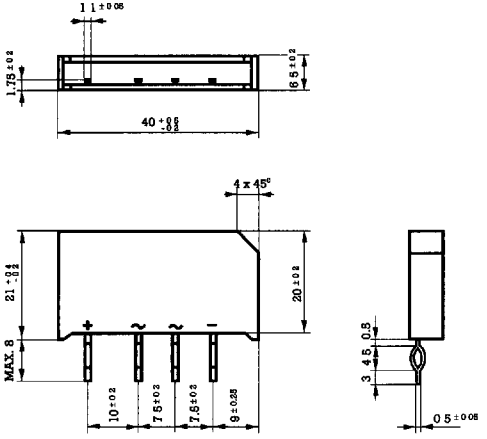

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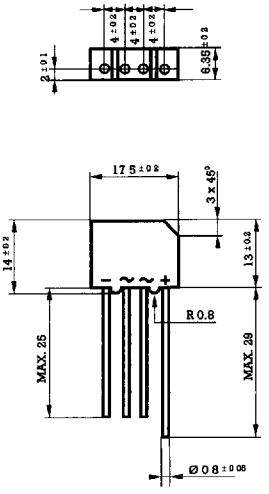
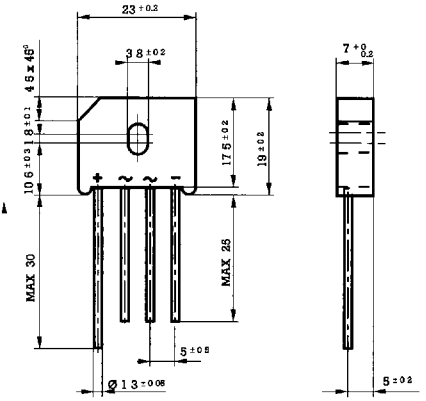


Package Outlines

Dimensions in mm.

12



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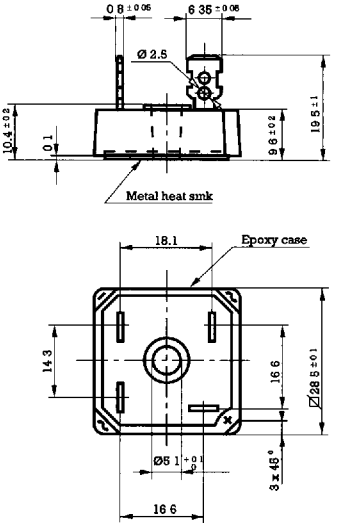

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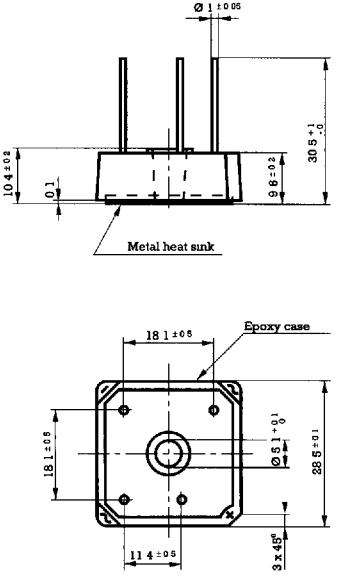
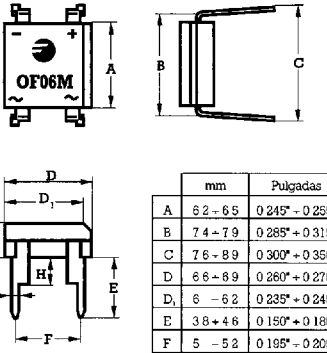


15

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 ÷ 6.9	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" ÷ 0.060"
I	0.46 ÷ 0.56	0.018" ÷ 0.022"

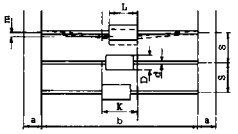
Packaging specifications

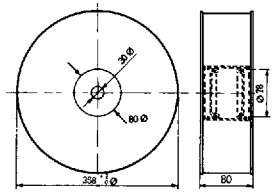
Dimensions in mm.

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

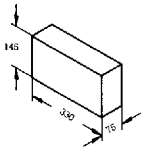
CASE TYPE (OUTLINE)	REEL DIMENSIONS					UNITS PER REEL	APROX GROSS WEIGHT PER REEL PACKED
	K	b	S	m	a		
(1) DO41 (Plastic)	6 4	53 ±2	5 ±0 5	1 2	6 ±1	6000	2.5 kg (5 52 Lbs)
(2) DO15 (Plastic)	7 85	53 ±2	5 ±0 5	1 2	6 ±1	5000	2 3 kg (5.07 Lbs)
(3) DO201AD (Plastic) (4) DO201AE (Plastic)	11	53 ±2	10 ±0 5	1.2	6 ±1	1500	2 kg. (4 41 Lbs)
(5) P-6 (Plastic)	11 27	53 ±2	10 ±0 5	1.2	6 ±1	1000	3 kg (6 61 Lbs)

REEL PACKAGING



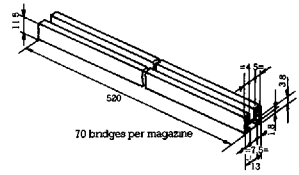


AMMO BOX PACKAGING (SUFFIX "AMP")



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 TUBF



BOX PACKAGING

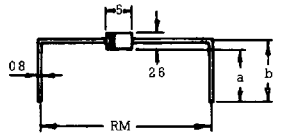
DEVICE TYPE (OUTLINE)	BOX SIZE	UNITS PER BOX	APROX GROSS WEIGHT
(6) (7) HVR3. HVR4 HVR062 (7) = Suffix E1	70 x 105 x 205	(6) 250 (7) 200	0 710 kg (1 560 Lbs)
(8) B C800, C1000, C1500 R, WL F, WF / ("A")	70 x 105 x 205	500 / (1.500)	0 650 kg (1 430 Lbs)
(9) B C1500/1000, C2000/1500	70 x 105 x 205	500	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.

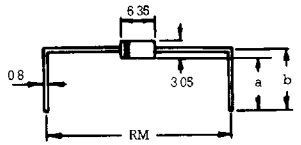
Plastic Cases

DO-41



Type	Dimensions		
	a	b	RM
C2-3	3±0.5	4.3±0.5	10±0.5
C2-5	10±0.5	11.3±0.5	10±0.5
C2-8	4±0.5	5.3±0.5	10±0.5

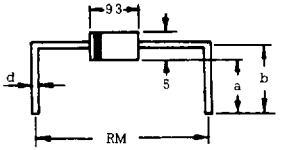
DO-15



Type	Dimensions		
	a	b	RM
C2-3	3±0.5	4.5±0.5	10±0.5
C2-5	10±0.5	11.5±0.5	10±0.5
C2-8	4±0.8	5.5±0.5	10±0.5

DO-201AD
DO-27A
(d = 1.27)

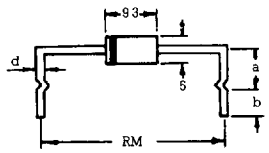
DO-201AE
(d = 1)



Type	Dimensions		
	a	b	RM
C2-1	3.5±0.5	6 ±0.5	15 ±0.5
C2-2	4 ±0.5	6.5±0.5	15 ±0.5
C2-4	7.5±0.3	10 ±0.3	17.8± 0.15
C2-6	3.5±0.5	6 ±0.5	17.5±0.5
C2-7	4.5±0.5	7 ±0.5	21 ±0.5
C2-11	4.5±0.5	7 ±0.5	17.5±0.5
C2-12	12.5±0.5	15 ±0.5	17.5±0.5
C2-13	16 ±0.5	18.5±0.5	15.2±0.5
C2-14	7.5±0.5	10 ±0.5	15 ±0.5
C2-17	4 ±0.5	6.5±0.5	20 ±0.5

DO-201AD
DO-27A
(d = 1.27)

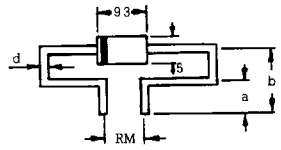
DO-201AE
(d = 1)



Type	Dimensions		
	a	b	RM
C6-1	10 ±0.5	5±0.5	15.2±0.5
C6-2	10 ±0.5	5±0.5	17.5±0.5
C6-3	7 ±0.5	5±0.5	21 ±0.5
C6-4	13.5±0.5	5±0.5	15.2±0.5
C6-5	10 ±0.5	5±0.5	20 ±0.5

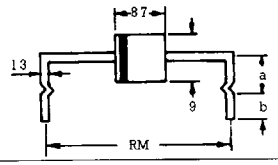
DO-201AD
DO-27A
(d = 1.27)

DO-201AE
(d = 1)



Type	Dimensions		
	a	b	RM
C4-2	4.6±0.3	10.5±0.3	7.5±0.5

P-6



Type	Dimensions		
	a	b	RM
C6-1	10 ±0.5	5±0.5	15.2±0.5
C6-2	10 ±0.5	5±0.5	17.5±0.5
C6-3	7 ±0.5	5±0.5	21 ±0.5
C6-4	13.5±0.5	5±0.5	15.2±0.5