



FAGOR ELECTRONICS

T.03-15

### 3 Amp. Glass Passivated Fast Recovery Rectifier

<p>Dimensions in mm.</p> <p>DO-201 AD DO-27 A (Plastic)</p>	<p>Voltage 50 to 600 V.</p> <p>Current 3.0 A. at 90 °C.</p>
<p><b>Mounting instructions</b></p> <ol style="list-style-type: none"> <li>1. Min. distance from body to soldering point, 4 mm.</li> <li>2. Max. solder temperature, 350°C.</li> <li>3. Max. soldering time, 3,5 sec.</li> <li>4. Do not bend lead at a point closer than 3 mm. to the body.</li> </ol>	<ul style="list-style-type: none"> <li>• Glass passivated junction</li> <li>• High current capability</li> <li>• The plastic material carries U/L recognition 94 V-0</li> <li>• Terminals: Axial Leads</li> <li>• Polarity: Color band denotes cathode</li> </ul>

#### Maximum Ratings, according to IEC publication No. 134

		MR 850 GP	MR 851 GP	MR 852 GP	MR 854 GP	MR 856 GP
$V_{RRM}$	Peak recurrent and non recurrent reverse voltage (V)	50	100	200	400	600
$I_{F(AV)}$	Forward current at $T_{amb} = 90\text{ °C}$	3.0 A				
$I_{FRM}$	Recurrent peak forward current (A)	15 A				
$I_{FSM}$	10 ms. peak forward surge current	100 A				
$t_{rr}$	Max. reverse recovery time from $I_F = 1\text{ A}$ $V_R = 30\text{ V}$	200 ns				
$T_j$	Max. operating temperature	+ 175 °C				
$T_{stg}$	Storage temperature	- 65 to + 175 °C				
$P_R$	Pulse avalanche peak power $T_p = 20\text{ }\mu\text{s}$ . Half sinus wave $T_j = 175\text{ °C}$	2.000 W				

#### Electrical Characteristics at $T_{amb} = 25\text{ °C}$

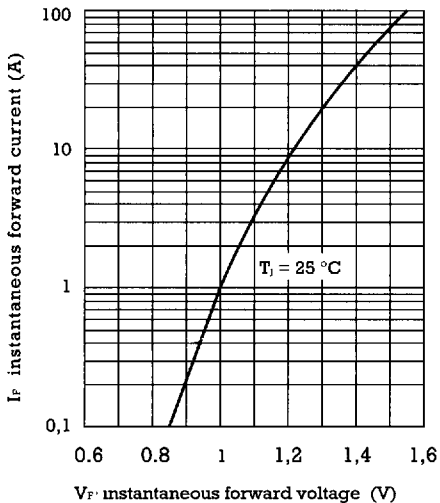
$V_F$	Max. forward voltage drop at $I_F = 3\text{ A}$	1.25 V.
$I_R$	Max. reverse current at $V_{RRM}$ at 25 °C at 125 °C	100 $\mu\text{A}$
$R_{thj-a}$	Thermal resistance (l = 10 mm.) Max. Typ.	30° C/W 15° C/W

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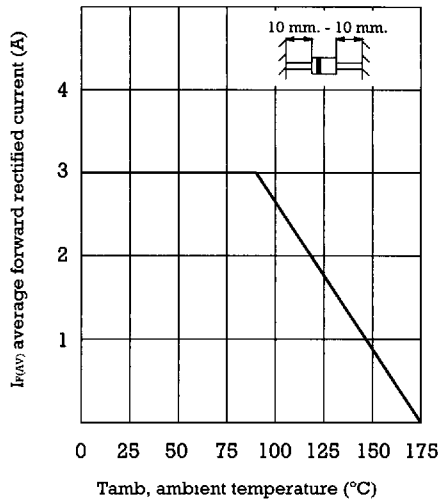
FAGOR ELECTRONICS

Rating And Characteristic Curves

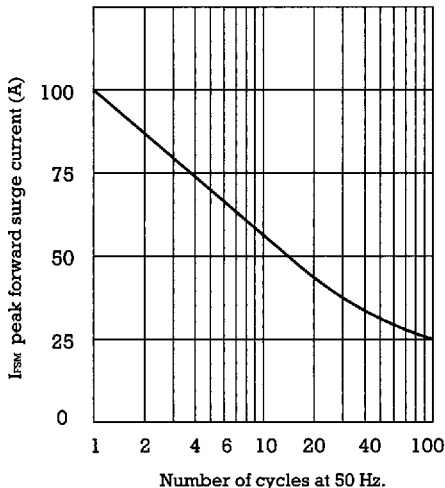
TYPICAL FORWARD CHARACTERISTIC



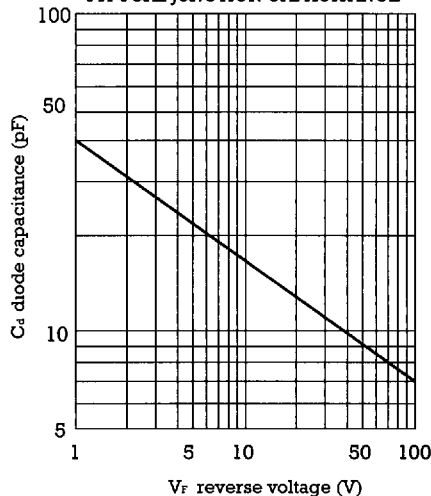
FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



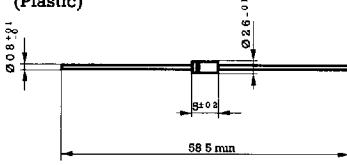
TYPICAL JUNCTION CAPACITANCE



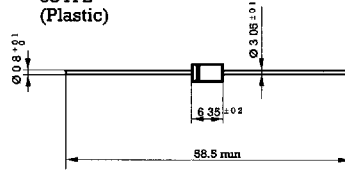
**Package Outlines**

Dimensions in mm.

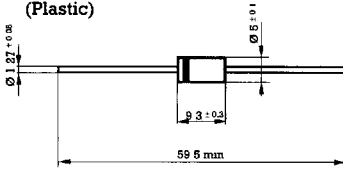
**1** DO-41  
(Plastic)



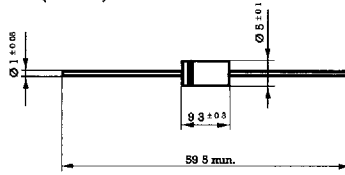
**2** DO-15  
F-126  
58 A 2  
(Plastic)



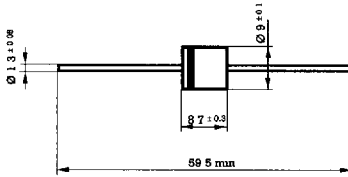
**3** DO-27 A  
DO-201 AD  
(Plastic)



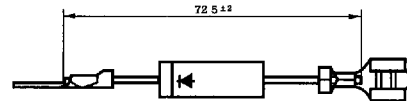
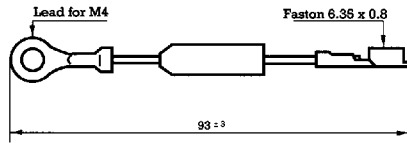
**4** DO-201 AE  
(Plastic)



**5** P-6  
(Plastic)

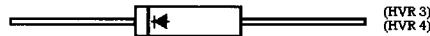
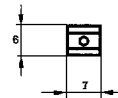
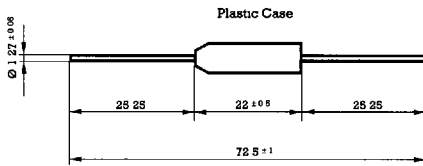


**7**



Suffix E1

**6**



(HVR 3)  
(HVR 4)

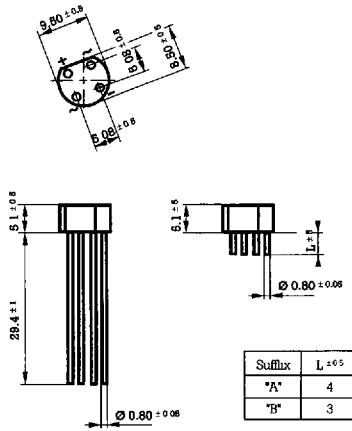


(HVR 062)

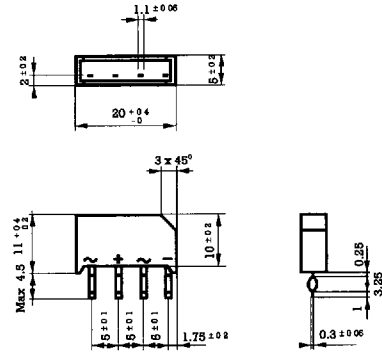
Package Outlines

Dimensions in mm

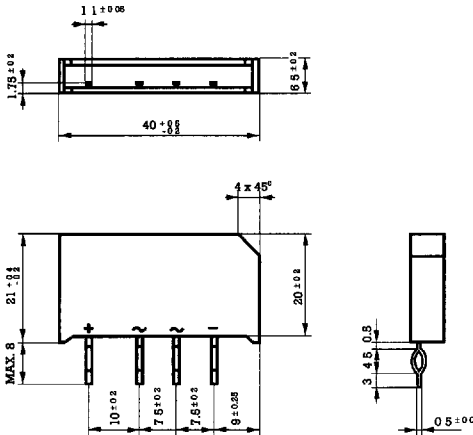
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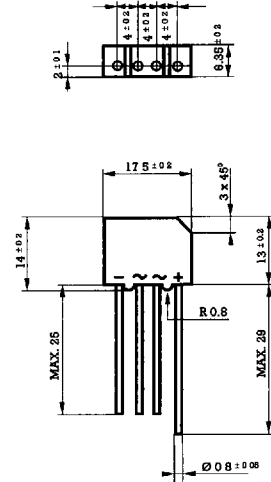
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11



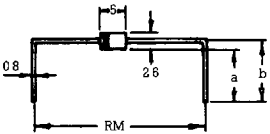
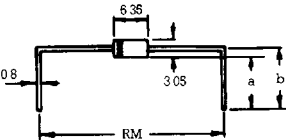
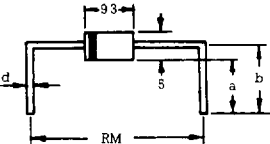
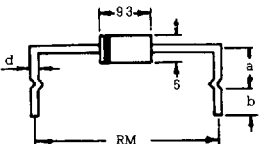
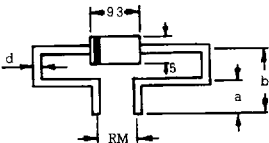
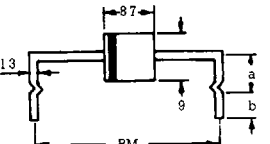




**Standard lead forming specifications**

**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	17.8 ± 0.15
			C2-6	35 ± 0.5	6 ± 0.5	17.5 ± 0.5
			C2-7	45 ± 0.5	7 ± 0.5	21 ± 0.5
			C2-11	45 ± 0.5	7 ± 0.5	17.5 ± 0.5
			C2-12	125 ± 0.5	15 ± 0.5	17.5 ± 0.5
			C2-13	16 ± 0.5	185 ± 0.5	15.2 ± 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				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	45 ± 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			