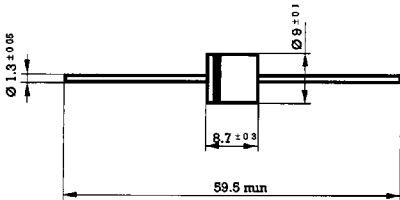


FAGOR ELECTRONICS

## 6 Amp. Silicon Rectifier Diodes

T-01-17

|  |  |
|--|--|
| <p>Dimensions in mm.</p>  <p><b>P-6</b><br/>(Plastic)</p>   | <p><b>Voltage</b><br/>50 to 1.000 V.</p> <p><b>Current</b><br/>6.0 A. at 60°C.</p>   |
| <p><b>Mounting instructions</b></p> <ol style="list-style-type: none"> <li>Min. distance from body to soldering point, 4 mm.</li> <li>Max. solder temperature, 350°C.</li> <li>Max. soldering time, 3,5 sec.</li> <li>Do not bend lead at a point closer than 4 mm. to the body</li> </ol> | <ul style="list-style-type: none"> <li>• High surge capability</li> <li>• Diffused 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

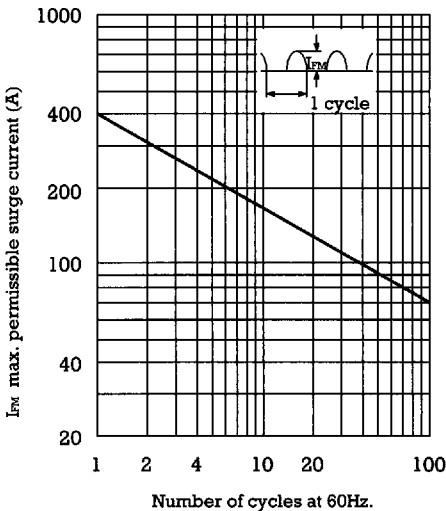
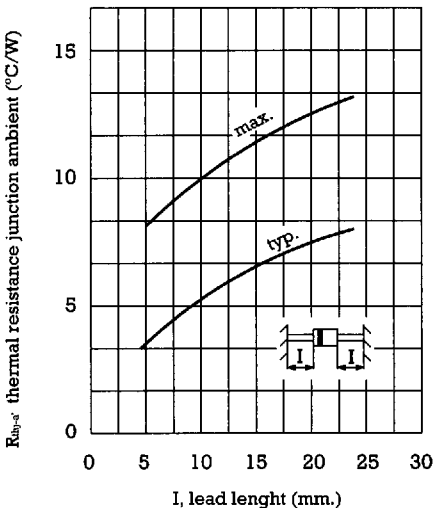
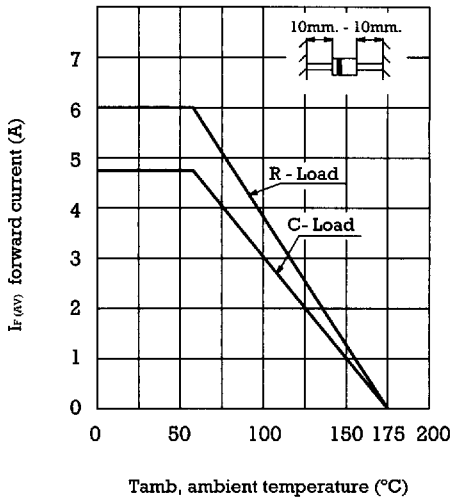
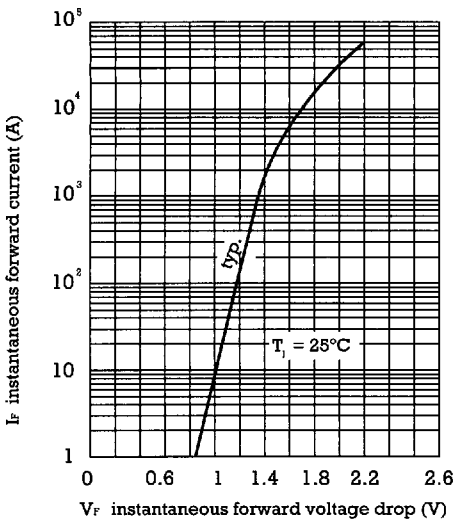
|             |   | P<br>600 A       | P<br>600 B | P<br>600 D | P<br>600 G | P<br>600 J | P<br>600 K | P<br>600 M |
|-------------|---|------------------|------------|------------|------------|------------|------------|------------|
| $V_{RRM}$   | Peak recurrent reverse voltage (V)                | 50               | 100        | 200        | 400        | 600        | 800        | 1000       |
| $I_{F(AV)}$ | Forward current at $T_{amb} = 60^\circ\text{C}$   | 6 A              |            |            |            |            |            |            |
| $I_{FRM}$   | Recurrent peak forward current                    | 70 A             |            |            |            |            |            |            |
| $I_{FSM}$   | 8.3 ms. peak forward surge current (Jedec method) | 400 A            |            |            |            |            |            |            |
| $T_j$       | Max. operating temperature                        | 175 °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 $I_F = 6\text{ A}$       | 0.9 V                                 |
| $I_R$       | Max. reverse current at $V_{RRM}$ at 25°C<br>at 100°C | 25 $\mu\text{A}$<br>100 $\mu\text{A}$ |
| $R_{thj-a}$ | Max. thermal resistance ( $l = 10\text{ mm.}$ )       | 10 °C/W                               |

FAGOR ELECTRONICS

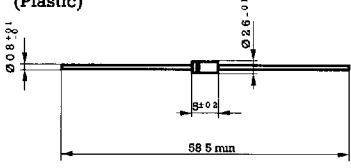
Characteristic Curves



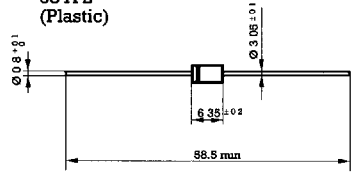
**Package Outlines**

Dimensions in mm.

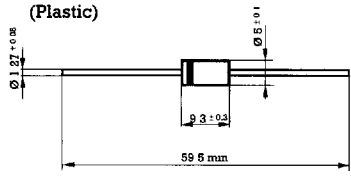
**1** DO-41  
(Plastic)



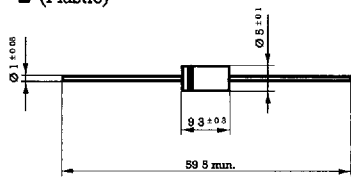
**2** DO-15  
F-126  
58 A 2  
(Plastic)



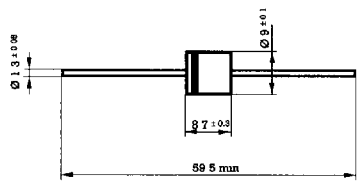
**3** DO-27 A  
DO-201 AD  
(Plastic)



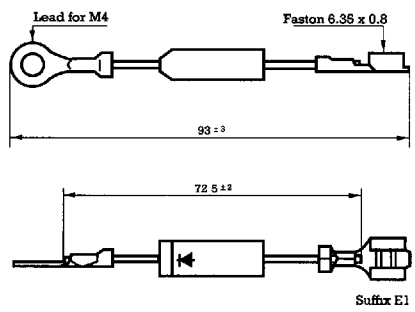
**4** DO-201 AE  
(Plastic)



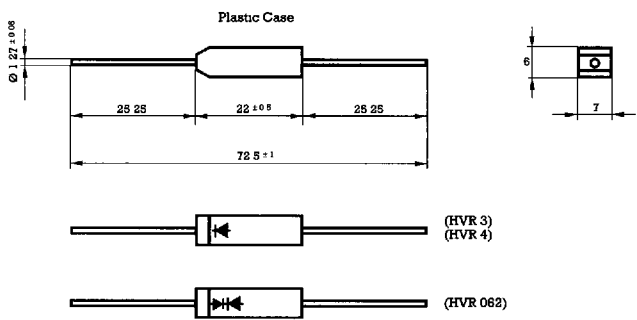
**5** P-6  
(Plastic)



**7**



**6**





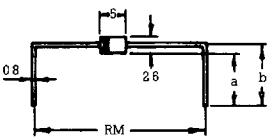
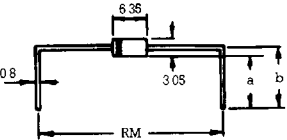
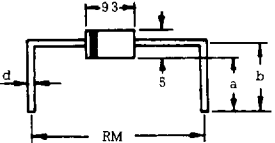
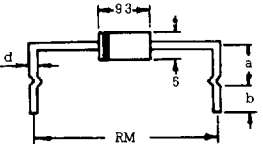
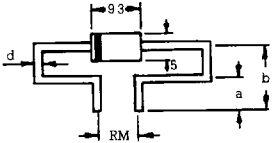
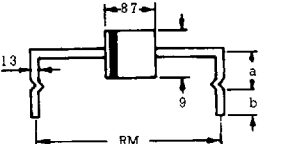




**Standard lead forming specifications**

**Dimensions in mm.**

Plastic Cases

|   |                     |            |  |                     |            |             |
|---|---------------------|------------|--|---------------------|------------|-------------|
| DO-41<br>                              | 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<br>                              | 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 ± 0.5             | 5.5 ± 0.5  | 10 ± 0.5   |                     |            |             |
| DO-201AD<br>DO-27A<br>(d = 1.27)<br>   | DO-201AE<br>(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             | 8.5 ± 0.5  | 20 ± 0.5    |
|   |                     |            | DO-201AD<br>DO-27A<br>(d = 1.27)<br> | DO-201AE<br>(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<br>DO-27A<br>(d = 1.27)<br> | DO-201AE<br>(d = 1) | Type       | Dimensions   |                     |            |             |
|   |                     |            | a  | b                   | RM         |             |
| C4-2  | 4.5 ± 0.3           | 10.5 ± 0.3 | 7.5 ± 0.5  |                     |            |             |
| P-6<br>                              | 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   |                     |            |             |