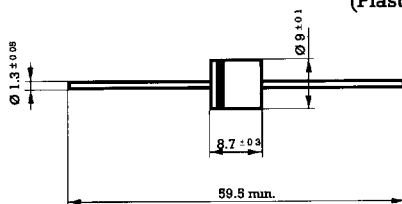




## 6 Amp. Glass Passivated Junction Rectifier

Dimensions in mm.

P-6  
(Plastic)



Voltage  
50 to 1.000 V.

Current  
6.0 A. at 60°C.



### 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 4 mm. to the body

- Glass passivated junction
- High surge capability
- High current capability
- The plastic material carries U/L recognition 94 V-0
- Terminals: Axial Leads
- Polarity. Color band denotes cathode

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

|             |                                                                                       | P<br>600 A<br>GP | P<br>600 B<br>GP | P<br>600 D<br>GP | P<br>600 G<br>GP | P<br>600 J<br>GP | P<br>600 K<br>GP | P<br>600 M<br>GP |
|-------------|---------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| $V_{RRM}$   | Peak recurrent reverse voltage (V)                                                    | 50               | 100              | 200              | 400              | 600              | 800              | 1000             |
| $I_{F(AV)}$ | Forward current at $T_{amb} = 60^\circ C$                                             | 6 A              |                  |                  |                  |                  |                  |                  |
| $I_{FRM}$   | Recurrent peak forward current                                                        | 70 A             |                  |                  |                  |                  |                  |                  |
| $I_{FSM}$   | 8.3 ms. peak forward surge current                                                    | 400 A            |                  |                  |                  |                  |                  |                  |
| $T_j$       | Max. operating temperature                                                            | + 175°C          |                  |                  |                  |                  |                  |                  |
| $T_{stg}$   | Storage temperature range                                                             | - 65 to + 175 °C |                  |                  |                  |                  |                  |                  |
| $P_R$       | Pulse avalanche peak power<br>$T_p = 20 \mu s$ Half sinus wave<br>$T_j = 175^\circ C$ | 2 000 W          |                  |                  |                  |                  |                  |                  |

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

|            |                                                       |                           |
|------------|-------------------------------------------------------|---------------------------|
| $V_F$      | Max. forward voltage drop at $I_F = 6 A$              | 1.1 V                     |
| $I_R$      | Max. reverse current at $V_{RRM}$ at 25°C<br>at 100°C | 10 $\mu A$<br>100 $\mu A$ |
| $R_{thja}$ | Max thermal resistance ( $I = 10 mm.$ )               | 10° C/W                   |

