

# Diodes

## Switching diodes

| Type            | Fig. Nr. | Maximum ratings                          |          |         | Characteristics                      |                  |          |                   |                         |                        |    |                     | Notes                                 |
|-----------------|----------|--|----------|---------|--------------------------------------|------------------|----------|-------------------|-------------------------|------------------------|----|---------------------|---------------------------------------|
|                 |          | $I_V$ at $I_{amb} = 45^\circ\text{C}$ mW | $I_F$ mA | $U_R$ V | $R_{thJA}$ $^\circ\text{C}/\text{W}$ | $U_F$ at $I_F$ V | $I_F$ mA | $C_D$ at $U_R$ pF | $r_f$ at $I_F$ $\Omega$ | $t_{rr}$ $\mu\text{s}$ |    |                     |                                       |
| BA 173          | 1        |  | 300      | 300     | $\leq 450$                           | $\leq 1$         | 100      | $\leq 2$          | 150                     |                        |    | 0,35 <sup>1)</sup>  | Clamping diode                        |
| BA 176          | 1        |  |          |         |                                      | $\leq 1,5$       | 400      |                   |                         |                        |    |                     | Aerial protection diode <sup>2)</sup> |
| BA 178          | 3        |  | 100      | 35      | $\leq 400$                           | $\leq 1,2$       | 100      | $\leq 1,3$        | 30                      | $\leq 1,3$             | 5  |                     | RF switching diode                    |
| BA 182          | 3        |  | 100      | 35      | $\leq 400$                           | $\leq 1,2$       | 100      | $\leq 1$          | 20                      | $\leq 0,7$             | 5  |                     | RF switching diode                    |
| BA 243          | 2        |  | 100      | 20      | $\leq 350$                           | $\leq 1$         | 100      | $\leq 2$          | 15                      | $\leq 1$               | 10 |                     | RF switching diode                    |
| BA 244          | 2        |  | 100      | 20      | $\leq 350$                           | $\leq 1$         | 100      | $\leq 2$          | 15                      | $\leq 0,5$             | 10 |                     | RF switching diode                    |
| BAW 24          | 2        | 440                                      | 600      | 40      | $\leq 350$                           | $\leq 1,2$       | 200      | $\leq 4$          | 0                       |                        |    | 0,006 <sup>3)</sup> |                                       |
| BAW 25          | 2        | 440                                      | 600      | 40      | $\leq 350$                           | $\leq 1$         | 200      | $\leq 4$          | 0                       |                        |    | 0,006 <sup>3)</sup> |                                       |
| BAW 26          | 2        | 440                                      | 600      | 60      | $\leq 350$                           | $\leq 1,2$       | 200      | $\leq 4$          | 0                       |                        |    | 0,006 <sup>3)</sup> |                                       |
| BAW 27          | 2        | 440                                      | 600      | 60      | $\leq 350$                           | $\leq 1,25$      | 400      | $\leq 4$          | 0                       |                        |    | 0,006 <sup>3)</sup> |                                       |
| BAY 68          | 2        | 440                                      | 115      | 25      | $\leq 350$                           | $\leq 1$         | 100      | $\leq 5$          | 0                       |                        |    | 0,01 <sup>1)</sup>  |                                       |
| BAY 69          | 2        | 440                                      | 115      | 50      | $\leq 350$                           | $\leq 1$         | 100      | $\leq 5$          | 0                       |                        |    | 0,01 <sup>1)</sup>  |                                       |
| BAY 92          | 1        | 230 <sup>4)</sup>                        | 100      | 600     | $\leq 450$                           | $\leq 1$         | 100      | $\leq 4$          | 10                      |                        |    | 0,35 <sup>1)</sup>  |                                       |
| BAY 93          | 2        | 440                                      | 115      | 20      | $\leq 350$                           | $\leq 1$         | 10       | $\leq 5$          | 0                       |                        |    | 0,015 <sup>1)</sup> |                                       |
| 1N 4148 $\circ$ | 2        | 440                                      | 200      | 75      | $\leq 350$                           | $\leq 1$         | 10       | $\leq 4$          | 0                       |                        |    | 0,008 <sup>1)</sup> |                                       |
| 1N 4149         | 2        | 440                                      | 200      | 75      | $\leq 350$                           | $\leq 1$         | 10       | $\leq 2$          | 0                       |                        |    | 0,008 <sup>1)</sup> |                                       |
| 1N 4151 $\circ$ | 2        | 440                                      | 200      | 50      | $\leq 350$                           | $\leq 1$         | 50       | $\leq 2$          | 0                       |                        |    | 0,004 <sup>1)</sup> |                                       |
| 1N 4154         | 2        | 440                                      | 200      | 25      | $\leq 350$                           | $\leq 1$         | 30       | $\leq 4$          | 0                       |                        |    | 0,004 <sup>1)</sup> |                                       |
| 1N 4446 $\circ$ | 2        | 440                                      | 200      | 75      | $\leq 350$                           | $\leq 1$         | 20       | $\leq 4$          | 0                       |                        |    | 0,008 <sup>1)</sup> |                                       |
| 1N 4447         | 2        | 440                                      | 200      | 75      | $\leq 350$                           | $\leq 1$         | 20       | $\leq 2$          | 0                       |                        |    | 0,008 <sup>1)</sup> |                                       |
| 1N 4448 $\circ$ | 2        | 440                                      | 200      | 75      | $\leq 350$                           | $\leq 1$         | 100      | $\leq 4$          | 0                       |                        |    | 0,008 <sup>1)</sup> |                                       |
| 1N 4449         | 2        | 440                                      | 200      | 75      | $\leq 350$                           | $\leq 1$         | 30       | $\leq 2$          | 0                       |                        |    | 0,008 <sup>1)</sup> |                                       |

Remarks: <sup>1)</sup>  $I_F = I_R = 10\text{ mA}$ ,  $i_R = 1\text{ mA}$ ; <sup>2)</sup>  $I_R = 1\ \mu\text{A}$ ,  $U_{(BR)} = 100\text{ V}$ ,  $\frac{I_P}{T} = 0,01$ ,  $t_P = 0,3\text{ ms}$ ; <sup>3)</sup>  $I_F = I_R = 10\text{...}100\text{ mA}$ ,  $i_R = 0,1\text{ mA}$ ; <sup>4)</sup> at  $t_{amb} = 25^\circ\text{C}$

Data book reference: B 2 B  $\circ$  Can be delivered as "Qualified semiconductor device"

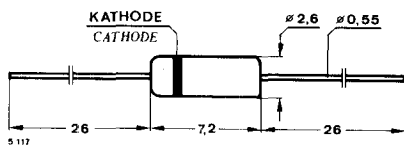


Fig. 1: 51 A 2 DIN 41 880  
JEDEC DO 7

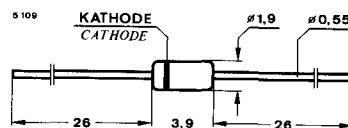


Fig. 2: 54 A 2 DIN 41 880  
JEDEC DO 35

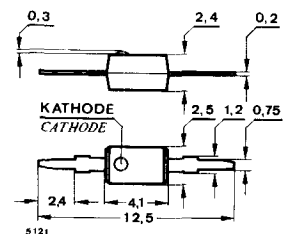


Fig. 3: Plastic case  
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