

## Rectifier Diodes


 $I_{FAV} = 2 - 25 \text{ A}$ , Standard Diodes (DS..), Avalanche Diodes (DSA..)

| Type           | $V_{RRM}$<br>V | $I_{FAV}$<br>$T_A=45^\circ\text{C}$<br>A | $P_{RSM}$<br>kW | $I_{FRSM}$<br>A | $I_{FSM}$<br>45°C<br>10 ms<br>A | $V_{TO}$<br>V | $r_F$<br>mΩ | $T_{VJM}$<br>°C | $R_{thJA}$<br>K/W | Package style                |
|----------------|----------------|------------------------------------------|-----------------|-----------------|---------------------------------|---------------|-------------|-----------------|-------------------|------------------------------|
| DSA 1-18 D *   | 1800           | 2.3                                      | 1.6             | 7               | 110                             | 0.8           | 67          | 150             | 80                | <br>Fig. 8<br>Weight 0.8 g   |
| DSA 1-16 D     | 1600           | -                                        | 1.6             | -               | -                               | -             | -           | -               | -                 |                              |
| ● DS 1-16 D    | 1600           | -                                        | -               | -               | -                               | -             | -           | -               | -                 |                              |
| ● DSA 1-14 D   | 1400           | -                                        | 1.6             | -               | -                               | -             | -           | -               | -                 |                              |
| ● DS 1-14 D    | 1400           | -                                        | -               | -               | -                               | -             | -           | -               | -                 |                              |
| DSA 1-12 D     | 1200           | 2.3                                      | 1.6             | 7               | 110                             | 0.8           | 67          | 150             | 80                | <br>Fig. 9<br>Weight = 1.5 g |
| DS 1-12 D      | 1200           | -                                        | -               | -               | -                               | -             | -           | -               | -                 |                              |
| DSA 2-18 A *   | 1800           | 3.6                                      | 2.5             | 7               | 120                             | 0.85          | 43          | 180             | 30                |                              |
| ● DSA 1.2-18 E | 1800           | 2.3                                      | 1.7             | -               | 75                              | 67            | -           | -               | 37.5              |                              |
| DSA 2-16 A     | 1600           | 3.6                                      | 2.5             | 7               | 120                             | 0.85          | 43          | 180             | 30                |                              |
| ● DS 2 -16 A   | 1600           | 3.6                                      | -               | -               | 120                             | 43            | -           | -               | 30                |                              |
| ● DSA 1.2-16 E | 1600           | 2.3                                      | 1.7             | -               | 75                              | 67            | -           | -               | 37.5              |                              |
| ● DS 1.2-16 E  | 1600           | 2.3                                      | -               | -               | 75                              | 67            | -           | -               | 37.5              |                              |
| ● DSA 2 -14 A  | 1400           | 3.6                                      | 2.5             | -               | 120                             | 43            | -           | -               | 30                |                              |
| ● DS 2 -14 A   | 1400           | 3.6                                      | -               | -               | 120                             | 43            | -           | -               | 30                |                              |
| ● DSA 1.2-14 E | 1400           | 2.3                                      | 1.7             | -               | 75                              | 67            | -           | -               | 37.5              |                              |
| ● DS 1.2-14 E  | 1400           | 2.3                                      | -               | -               | 75                              | 67            | -           | -               | 37.5              |                              |
| DSA 2-12 A     | 1200           | 3.6                                      | 2.5             | 7               | 120                             | 0.85          | 43          | 180             | 30                |                              |
| ● DSA 1.2-12 E | 1200           | 2.3                                      | 1.7             | -               | 75                              | 67            | -           | -               | 37.5              |                              |
| DS 2-12 A      | 1200           | 3.6                                      | -               | 7               | 120                             | 0.85          | 43          | 180             | 30                |                              |
| ● DS 1.2-12 E  | 1200           | 2.3                                      | -               | -               | 75                              | 67            | -           | -               | 37.5              |                              |
| DS 2-08 A      | 800            | 3.6                                      | -               | 7               | 120                             | 0.85          | 43          | 180             | 30                |                              |
| ● DS 1.2-08 E  | 800            | 2.3                                      | -               | -               | 75                              | 67            | -           | -               | 37.5              |                              |
| ● DS 2 -04 A   | 400            | 3.6                                      | -               | -               | 120                             | 43            | -           | -               | 30                |                              |
| ● DS 1.2-04 E  | 400            | 2.3                                      | -               | -               | 75                              | 67            | -           | -               | 37.5              |                              |

| Type          | $V_{RRM}$<br>V | $I_{FAV}$<br>$T_C=100^\circ\text{C}$<br>A | $P_{RSM}$<br>kW | $I_{FRSM}$<br>A | $I_{FSM}$<br>45°C<br>10 ms<br>A | $V_{TO}$<br>V | $r_F$<br>mΩ | $T_{VJM}$<br>°C | $R_{thJC}$<br>K/W | $R_{thCK}$<br>K/W | Package style                                   |
|---------------|----------------|-------------------------------------------|-----------------|-----------------|---------------------------------|---------------|-------------|-----------------|-------------------|-------------------|-------------------------------------------------|
| DSA 9-18 F *  | 1800           | 11                                        | 4.5             | 18              | 250                             | 0.85          | 15          | 180             | 2                 | 1                 | <br>Fig. 10<br>DO-203 AA (DO-4)<br>Weight = 5 g |
| ● DSA 6-18 F  | 1800           | 10                                        | 3.4             | 16              | 180                             | 30            | 30          | -               | 3                 | -                 |                                                 |
| DSA 9-16 F    | 1600           | 11                                        | 4.5             | 18              | 250                             | 0.85          | 15          | 180             | 2                 | 1                 |                                                 |
| ● DS 9-16 F   | 1600           | 11                                        | -               | 18              | 250                             | 15            | -           | -               | 2                 | -                 |                                                 |
| ● DSA 6-16 F  | 1600           | 10                                        | 3.4             | 16              | 180                             | 30            | 30          | -               | 3                 | -                 |                                                 |
| ● DS 6-16 F   | 1600           | 10                                        | -               | 16              | 180                             | 30            | 30          | -               | 3                 | -                 |                                                 |
| ● DSA 9-14 F  | 1400           | 11                                        | 4.5             | 18              | 250                             | 15            | -           | -               | 2                 | -                 |                                                 |
| ● DS 9-14 F   | 1400           | 11                                        | -               | 18              | 250                             | 15            | -           | -               | 2                 | -                 |                                                 |
| ● DSA 6-14 F  | 1400           | 10                                        | 3.4             | 16              | 180                             | 30            | 30          | -               | 3                 | -                 |                                                 |
| ● DS 6-14 F   | 1400           | 10                                        | -               | 16              | 180                             | 30            | 30          | -               | 3                 | -                 |                                                 |
| DSA 9-12 F    | 1200           | 11                                        | 4.5             | 18              | 250                             | 0.85          | 15          | 180             | 2                 | 1                 |                                                 |
| ● DSA 6-12 F  | 1200           | 10                                        | 3.4             | 16              | 180                             | 30            | 30          | -               | 3                 | -                 |                                                 |
| DS 9-12 F     | 1200           | 11                                        | -               | 18              | 250                             | 0.85          | 15          | 180             | 2                 | 1                 |                                                 |
| ● DS 6-12 F   | 1200           | 10                                        | -               | 16              | 180                             | 30            | 30          | -               | 3                 | -                 |                                                 |
| DS 9-08 F     | 800            | 11                                        | -               | 18              | 250                             | 0.85          | 15          | 180             | 2                 | 1                 |                                                 |
| ● DS 6-08 F   | 800            | 10                                        | -               | 16              | 180                             | 30            | 30          | -               | 3                 | -                 |                                                 |
| ● DS 9-04 F   | 400            | 11                                        | -               | 18              | 250                             | 15            | -           | -               | 2                 | -                 |                                                 |
| ● DS 6-04 F   | 400            | 10                                        | -               | 16              | 180                             | 30            | 30          | -               | 3                 | -                 |                                                 |
| DSA 17-18 A * | 1800           | 25                                        | 7               | 40              | 370                             | 0.85          | 8           | 180             | 1.5               | 0.6               | <br>Fig. 11 Weight = 6 g<br>DO-203 AA (DO-4)    |
| DSA 17-16 A   | 1600           | -                                         | 7               | -               | -                               | -             | -           | -               | -                 | -                 |                                                 |
| ● DS 17-16 A  | 1600           | -                                         | -               | -               | -                               | -             | -           | -               | -                 | -                 |                                                 |
| ● DSA 17-14 A | 1400           | -                                         | 7               | -               | -                               | -             | -           | -               | -                 | -                 |                                                 |
| ● DS 17-14 A  | 1400           | -                                         | -               | -               | -                               | -             | -           | -               | -                 | -                 |                                                 |
| DSA 17-12 A   | 1200           | 25                                        | 7               | 40              | 370                             | 0.85          | 8           | 180             | 1.5               | 0.6               |                                                 |
| DS 17-12 A    | 1200           | -                                         | -               | -               | -                               | -             | -           | -               | -                 | -                 |                                                 |
| DS 17-08 A    | 800            | -                                         | -               | -               | -                               | -             | -           | -               | -                 | -                 |                                                 |
| ● DS 17-06 A  | 600            | -                                         | -               | -               | -                               | -             | -           | -               | -                 | -                 |                                                 |
| ● DS 17-04 A  | 400            | -                                         | -               | -               | -                               | -             | -           | -               | -                 | -                 |                                                 |
| ● DS 17-02 A  | 200            | -                                         | -               | -               | -                               | -             | -           | -               | -                 | -                 |                                                 |

\* Delivery time on request - Data according to DIN / IEC 747-2

● Part numbers have been replaced by the next higher prime product in this category.

A = Anode, C = Cathode