

Thyristor Diode Modules for Current Source Inverters

| Type | V_{DRM} V_{RRM} $V_{Thyr.}$ | V_{RRM} V (Diode) | I_{TRMSM} A | I_{TSM} kA 10 ms, $T_{vj\ max}$ | $\int j^2 dt$ A ² s 10 ms, $T_{vj\ max}$, *10 ³ | I_{TAVM}/T_c A/°C 180° el sin | $V_{(TO)}$ V $T_{vj} =$ $T_{vj\ max}$ | r_T mΩ $T_{vj} =$ $T_{vj\ max}$ | $(di/dt)_{cr}$ A/μs DIN IEC 747-6 | t_q μs typ. | $(di/dt)_{cr}$ V/μs DIN IEC 747-6 | R_{thJC} °C/W 180° el sin | R_{thCK} °C/W | $T_{vj\ max}$ °C | outline Maßbild Nr. |
|-------------------|---------------------------------------|---------------------------|------------------|--|--|--|--|--|--|---------------------|--|-----------------------------------|--------------------|---------------------|---------------------------|
| Baseplate = 20 mm | | | | | | | | | | | | | | | |
| TD 61 N 14/20 | 1400 | 2000 | 120 | 1,40 | 9,8 | 60/85 | 0,80 | 3,40 | 150 | 120 | F = 1000 | 0,52 | 0,16 | 125 | TP3 |
| DT 61 N 14/20 | | | | | | 76/68 | | | | | | | | | |
| TD 92 N 14/20 | 1400 | 2000 | 160 | 1,80 | 16,2 | 92/85 | 0,85 | 2,15 | 150 | 150 | F = 1000 | 0,37 | 0,10 | 130 | TP3 |
| DT 92 N 20/14 | | | | | | 104/76 | | | | | | | | | |
| TD 92 N 16/25 | 1600 | 2500 | 160 | 1,80 | 16,2 | 92/85 | 0,85 | 2,15 | 150 | 150 | F = 1000 | 0,37 | 0,10 | 130 | TP3 |
| DT 92 N 25/16 | | | | | | 104/76 | | | | | | | | | |
| Baseplate = 25 mm | | | | | | | | | | | | | | | |
| TD 106 N 14/20 | 1400 | 2000 | 180 | 2,00 | 20 | 106/85 | 0,90 | 2,60 | 150 | 150 | F = 1000 | 0,33 | 0,08 | 140 | TP4 |
| DT 106 N 20/14 | | | | | | 115/78 | | | | | | | | | |
| TD 106 N 16/25 | 1600 | 2500 | 180 | 2,00 | 20 | 106/85 | 0,90 | 2,60 | 150 | 150 | F = 1000 | 0,33 | 0,08 | 140 | TP4 |
| DT 106 N 25/16 | | | | | | 115/78 | | | | | | | | | |
| Baseplate = 30 mm | | | | | | | | | | | | | | | |
| TD 121 N 14/20 | 1400 | 2000 | 200 | 2,35 | 27,6 | 121/85 | 0,85 | 2,00 | 150 | 180 | F = 1000 | 0,23 | 0,06 | 125 | TP5 |
| DT 121 N 20/14 | | | | | | 128/81 | | | | | | | | | |
| TD 121 N 16/25 | 1600 | 2500 | 200 | 2,35 | 27,6 | 121/85 | 0,85 | 2,00 | 150 | 180 | F = 1000 | 0,23 | 0,06 | 125 | TP5 |
| DT 121 N 25/16 | | | | | | 128/81 | | | | | | | | | |
| Baseplate = 50 mm | | | | | | | | | | | | | | | |
| TD 150 N 24/32 | 2400 | 3200 | 350 | 4,00 | 80 | 150/85 | 1,20 | 2,30 | 60 | 300 | C = 500 | 0,13 | 0,04 | 125 | TP7 |
| DT 150 N 32/24 | | | | | | 223/54 | | | | | F = 1000 | | | | |
| TD 170 N 14/20 | 1400 | 2000 | 350 | 4,60 | 106 | 170/85 | 0,95 | 1,00 | 150 | 250 | F = 1000 | 0,17 | 0,04 | 125 | TP7 |
| DT 170 N 20/14 | | | | | | 223/68 | | | | | | | | | |
| TD 170 N 16/25 | 1600 | 2500 | 350 | 4,60 | 106 | 170/85 | 0,95 | 1,00 | 150 | 250 | F = 1000 | 0,17 | 0,04 | 125 | TP7 |
| DT 170 N 25/16 | | | | | | 223/68 | | | | | | | | | |
| TD 210 N 14/20 | 1400 | 2000 | 410 | 5,80 | 168 | 210/85 | 1,00 | 0,85 | 150 | 200 | F = 1000 | 0,13 | 0,04 | 125 | TP7 |
| DT 210 N 20/14 | | | | | | 261/73 | | | | | | | | | |
| TD 210 N 16/25 | 1600 | 2500 | 410 | 5,80 | 168 | 210/85 | 1,00 | 0,85 | 150 | 200 | F = 1000 | 0,13 | 0,04 | 125 | TP7 |
| DT 210 N 25/16 | | | | | | 261/73 | | | | | | | | | |
| TD 215 N 22/30 | 2200 | 3000 | 410 | 6,30 | 198 | 215/85 | 0,95 | 0,92 | 150 | 300 | F = 1000 | 0,13 | 0,04 | 125 | TP7 |
| DT 215 N 30/22 | | | | | | 261/73 | | | | | | | | | |
| TD 250 N 14/20 | 1400 | 2000 | 410 | 7,00 | 245 | 250/85 | 0,80 | 0,70 | 150 | 250 | F = 1000 | 0,13 | 0,04 | 125 | TP7 |
| DT 250 N 20/14 | | | | | | 261/82 | | | | | | | | | |
| TD 250 N 16/25 | 1600 | 2500 | 410 | 7,00 | 245 | 250/85 | 0,80 | 0,70 | 150 | 250 | F = 1000 | 0,13 | 0,04 | 125 | TP7 |
| DT 250 N 25/16 | | | | | | 261/82 | | | | | | | | | |

Most types of the power module are UL-recognized