SKKD 81, SKKE 81



| V _{RSM} | V_{RRM} | I _{FRMS} = 140 A (maximum value for continuous operation) | | |
|------------------|-----------|--|--------------|--|
| V | V | I _{FAV} = 80 A (sin. 180; T _c = 87 °C) | | |
| 500 | 400 | SKKE 81/04 | SKKD 81/04 | |
| 700 | 600 | SKKE 81/06 | SKKD 81/06 | |
| 900 | 800 | SKKE 81/08 | SKKD 81/08 | |
| 1300 | 1200 | SKKE 81/12 | SKKD 81/12 | |
| 1500 | 1400 | SKKE 81/14 | SKKD 81/14 | |
| 1700 | 1600 | SKKE 81/16 | SKKD 81/16 | |
| 1900 | 1800 | SKKE 81/18 | SKKD 81/18 | |
| 2100 | 2000 | SKKE 81/20H4 | SKKD 81/20H4 | |
| 2300 | 2200 | SKKE 81/22H4 | SKKD 81/22H4 | |

Rectifier Diode Modules

SKKD 81 SKKE 81

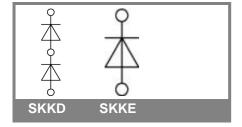
Features

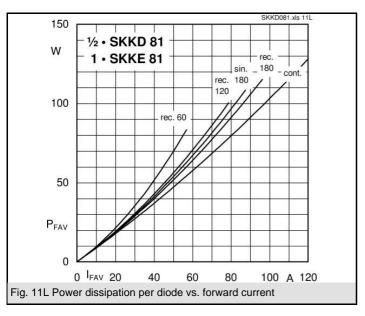
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

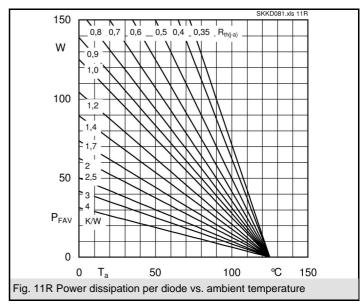
Typical Applications

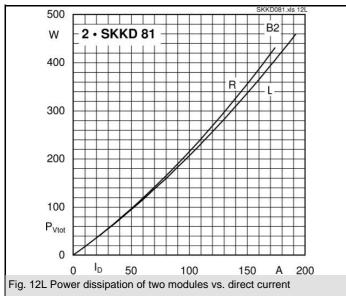
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors
- · Free-wheeling diodes
- 1) SKKD types only

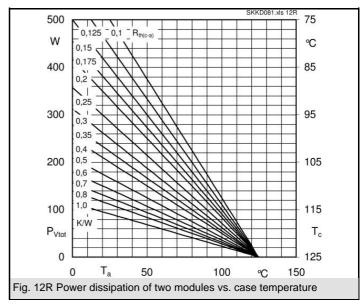
| Symbol | Conditions | Values | Units |
|----------------------|--|-------------------|-----------|
| I _{FAV} | sin. 180; T _c = 85 (100) °C | 82 (57) | Α |
| I _D | P3/120; T _a = 45 °C; B2 / B6 | 63 / 70 | Α |
| | P3/180F; T _a = 35 °C; B2 / B6 | 135 / 175 | Α |
| I _{FSM} | T _{vi} = 25 °C; 10 ms | 2000 | Α |
| | T _{vi} = 125 °C; 10 ms | 1750 | Α |
| i²t | T _{vj} = 25 °C; 8,3 10 ms | 20000 | A²s |
| | T _{vj} = 125 °C; 8,3 10 ms | 15000 | A²s |
| V _F | T _{vi} = 25 °C; I _F = 300 A | max. 1,55 | V |
| $V_{(TO)}$ | T _{vi} = 125 °C | max. 0,85 | V |
| r _T | T _{vi} = 125 °C | max. 1,8 | $m\Omega$ |
| I_{RD} | $T_{vj} = 125 ^{\circ}\text{C}; V_{RD} = V_{RRM}$ | max. 4,5 | mA |
| R _{th(j-c)} | per diode / per module 1) | 0,4 / 0,2 | K/W |
| R _{th(c-s)} | per diode / per module 1) | 0,2 / 0,1 | K/W |
| T_{vj} | | - 40 + 125 | °C |
| T _{stg} | | - 40 + 125 | °C |
| V _{isol} | a. c. 50 Hz; r.m.s.; 1 s / 1 min. | 3600 / 3000 | V~ |
| V _{isol} | a. c. 50 Hz; r.m.s.; 1 s / 1 min. for SKKH4 | 4800 / 4000 | V~ |
| M_s | to heatsink | 5 ± 15 % | Nm |
| M_t | to terminals | 3 ± 15 % | Nm |
| а | | 5 * 9,81 | m/s² |
| m | approx. | 95 | g |
| Case | SKKD | A 10 | |
| | SKKE | A 12 | |
| | | | |

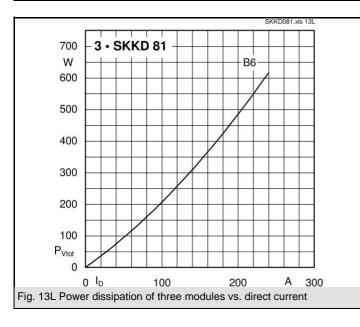


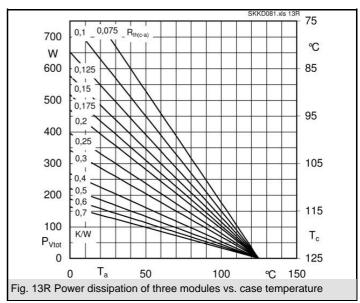




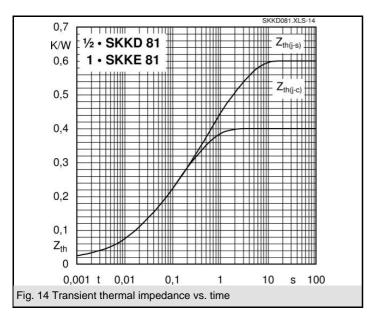


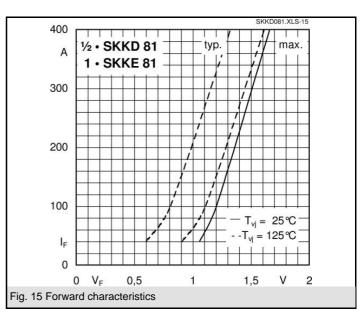


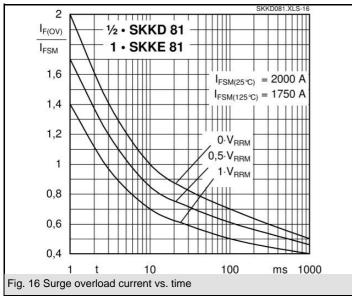


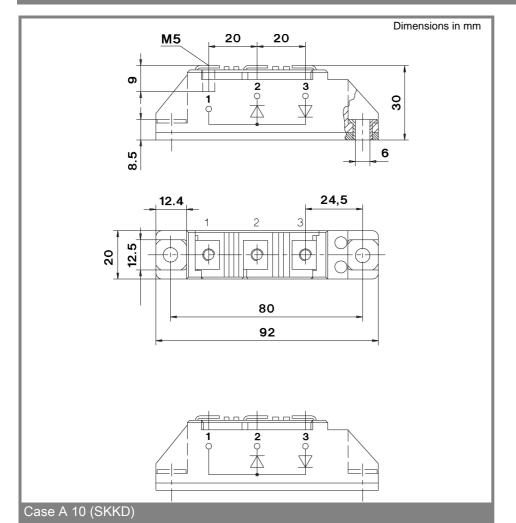


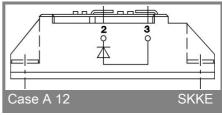
SKKD 81, SKKE 81











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