SKKD 81



| V _{RSM} V | V _{RRM} V | I _{FRMS} = 140 A (maximum value for continuous operation) I _{FAV} = 80 A (sin. 180; T _c = 87 °C) | | |
|-----------------------|-----------------------|--|--|--|
| 900 | 800 | SKKD 81/08 | | |
| 1300 | 1200 | SKKD 81/12 | | |
| 1500 | 1400 | SKKD 81/14 | | |
| 1700 | 1600 | SKKD 81/16 | | |
| 1900 | 1800 | SKKD 81/18 | | |

SEMIPACK[®] 1

Rectifier Diode Modules

SKKD 81

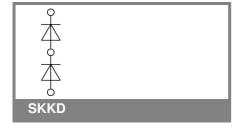
Features

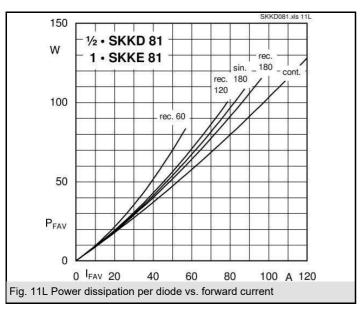
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

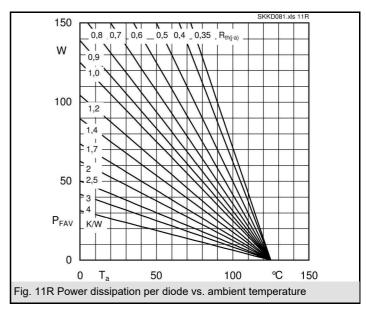
Typical Applications*

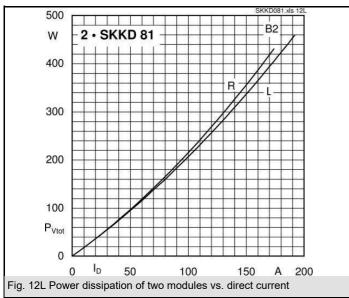
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motor

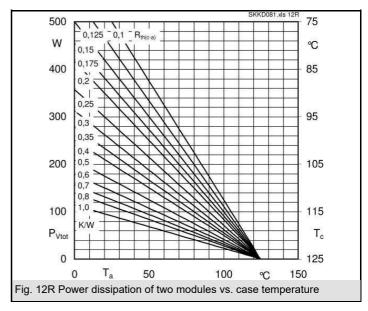
| Symbol | Conditions | Values | Units |
|----------------------|---|-------------------|-------|
| I _{FAV} | sin. 180; T _c = 85 (100) °C | 82 (57) | Α |
| I _D | P3/120; T _a = 45 °C; B2 / B6 | 63 / 70 | Α |
| | P3/180F; T _a = 35 °C; B2 / B6 | 135 / 175 | Α |
| I _{FSM} | T _{vj} = 25 °C; 10 ms | 2000 | Α |
| | T _{vj} = 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 _{vj} = 125 °C | max. 1,8 | mΩ |
| I_{RD} | T_{vj} = 125 °C; V_{RD} = V_{RRM} | max. 4,5 | mA |
| R _{th(j-c)} | per diode / per module | 0,4 / 0,2 | K/W |
| R _{th(c-s)} | per diode / per module | 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~ |
| 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 | |
| | | | |
| | | | |

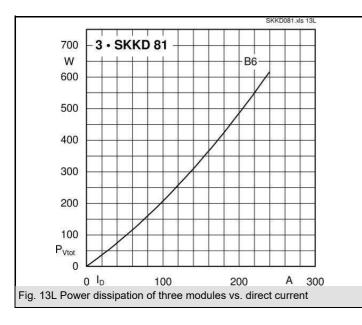


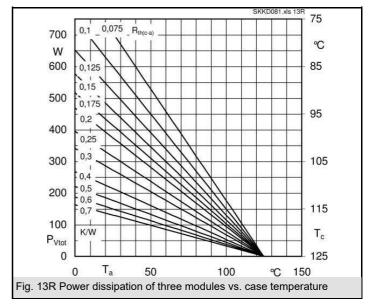




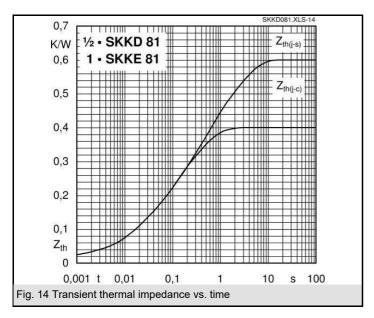


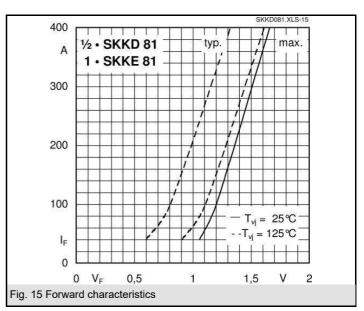


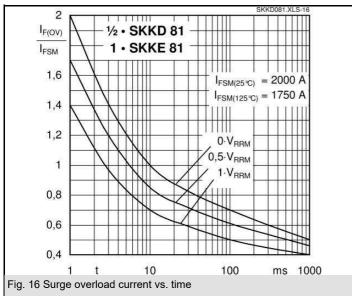


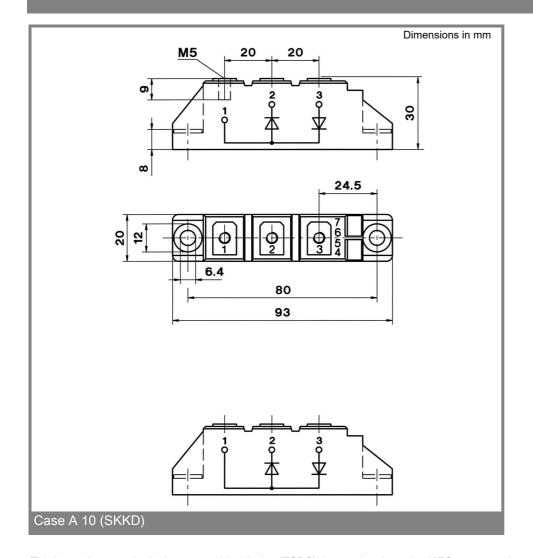


SKKD 81









This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, chapter IX.

*IMPORTANT INFORMATION AND WARNINGS

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