

SKKD 81, SKKE 81



SEMIPACK[®] 1

| 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) | |
|----------------|----------------|---|--------------|
| 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

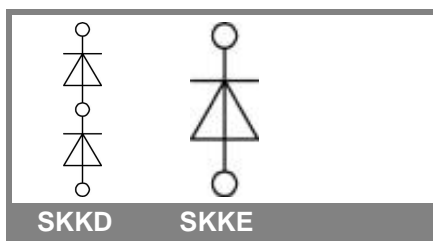
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

Typical Applications

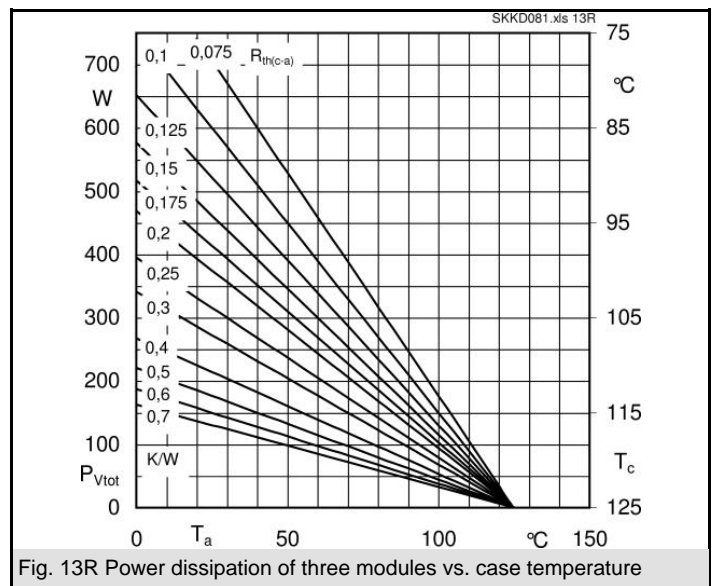
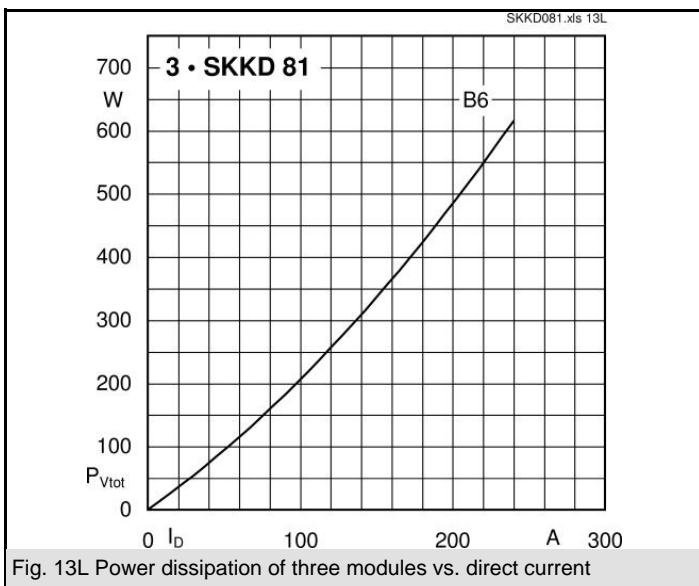
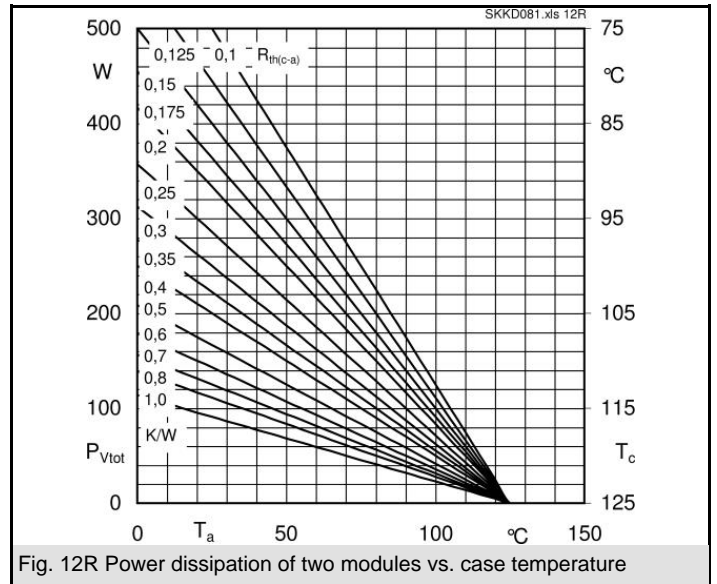
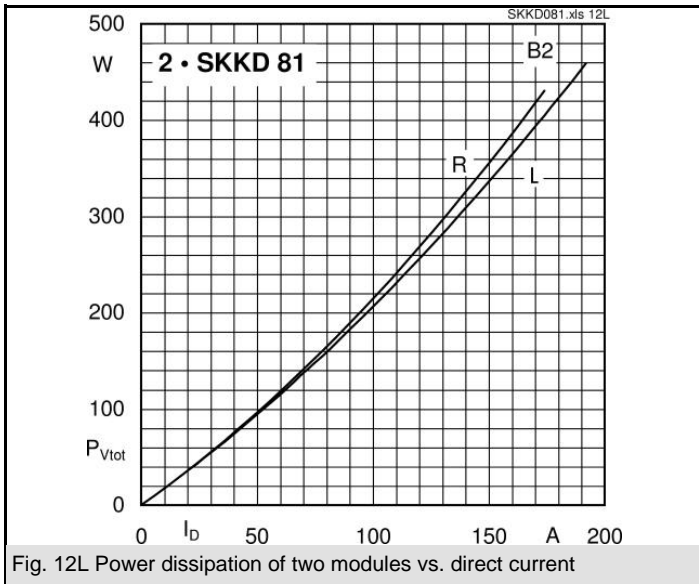
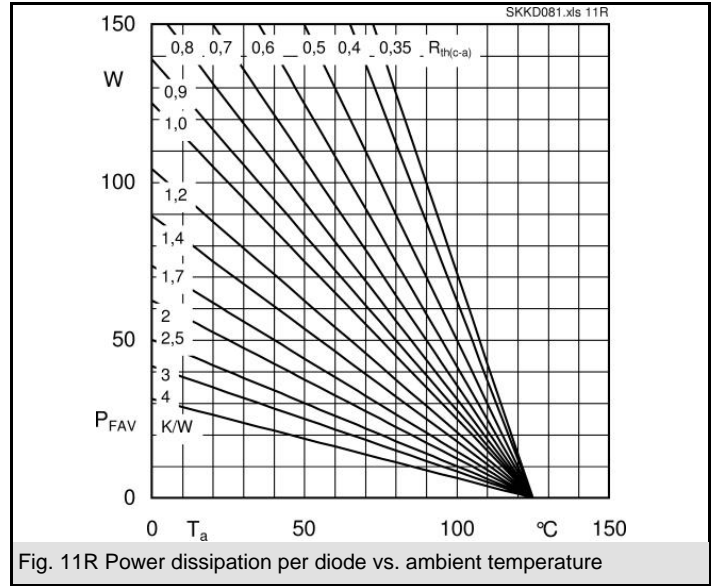
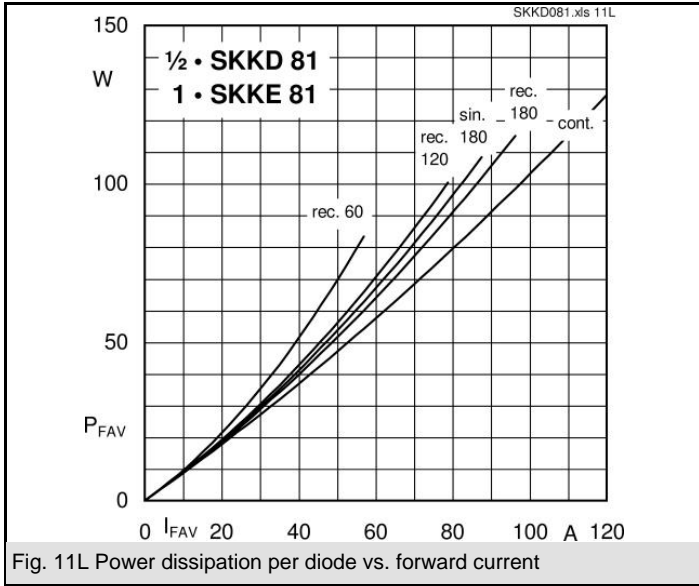
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors
- Free-wheeling diodes

1) SKKD types only

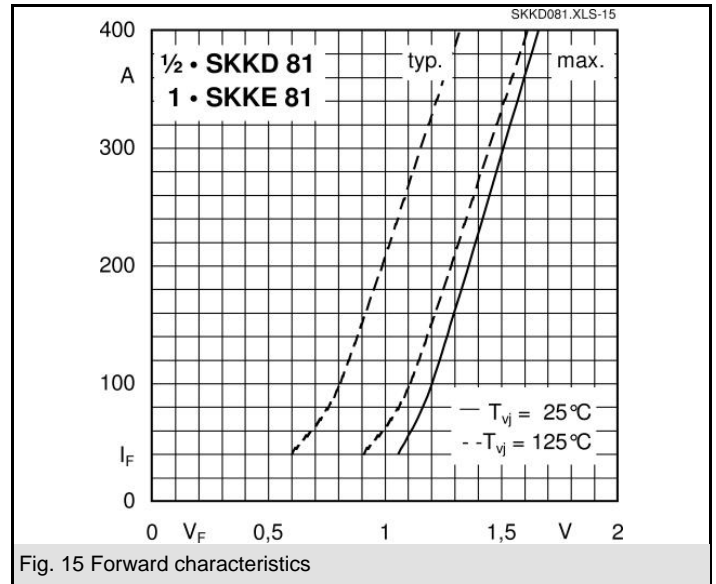
| Symbol | Conditions | Values | Units |
|---------------|--|----------------|------------------|
| I_{FAV} | sin. 180; $T_c = 85$ (100) °C | 82 (57) | A |
| I_D | P3/120; $T_a = 45$ °C; B2 / B6 | 63 / 70 | A |
| | P3/180F; $T_a = 35$ °C; B2 / B6 | 135 / 175 | A |
| I_{FSM} | $T_{vj} = 25$ °C; 10 ms | 2000 | A |
| | $T_{vj} = 125$ °C; 10 ms | 1750 | A |
| i^2t | $T_{vj} = 25$ °C; 8,3 ... 10 ms | 20000 | A ² s |
| | $T_{vj} = 125$ °C; 8,3 ... 10 ms | 15000 | A ² s |
| V_F | $T_{vj} = 25$ °C; $I_F = 300$ A | max. 1,55 | V |
| $V_{(TO)}$ | $T_{vj} = 125$ °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 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 SKK...H4 | 4800 / 4000 | V~ |
| M_s | to heatsink | 5 ± 15 % | Nm |
| M_t | to terminals | 3 ± 15 % | Nm |
| a | | 5 * 9,81 | m/s ² |
| m | approx. | 95 | g |
| Case | SKKD | A 10 | |
| | SKKE | A 12 | |



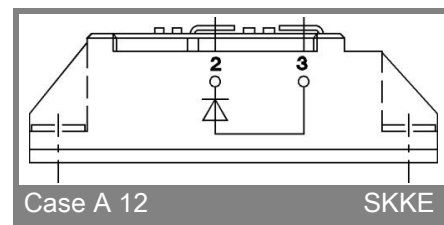
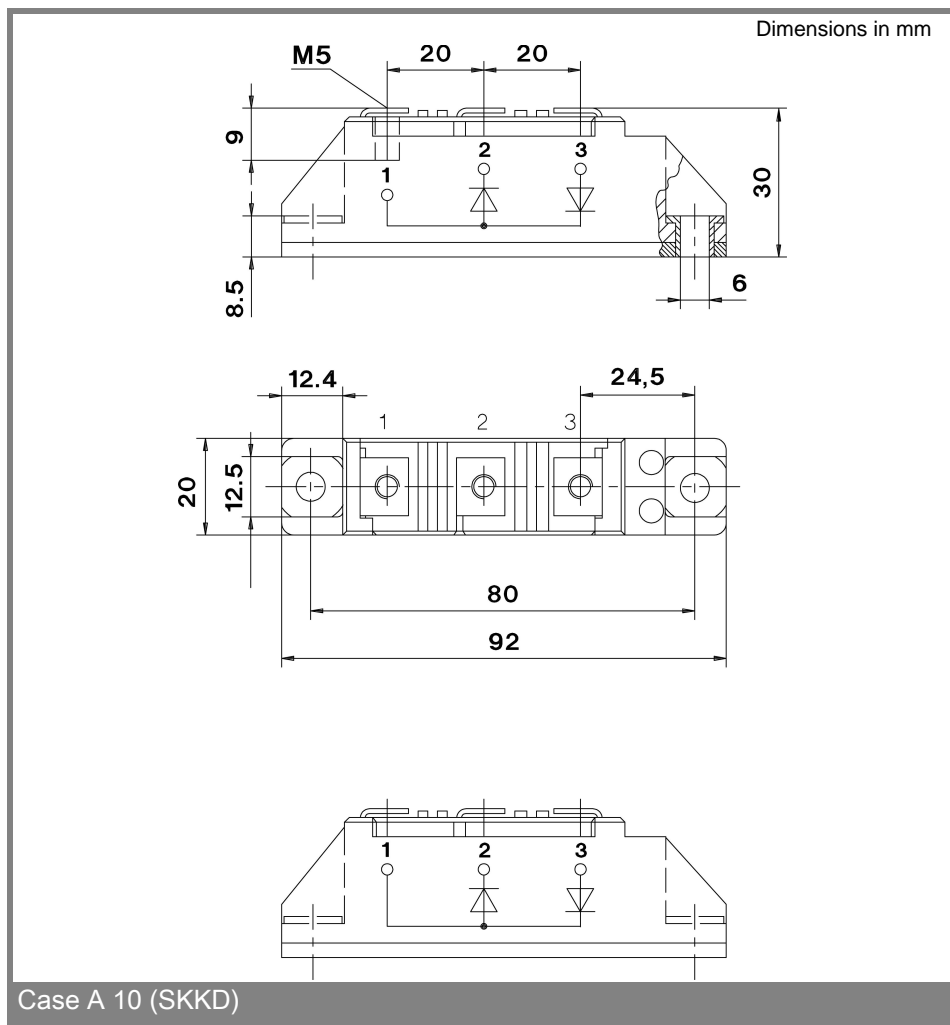
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