



SEMIPACK® 1

Rectifier Diode Modules

SKKD 100

Features

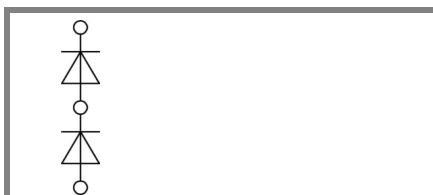
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- SKKD half bridge connection center-tap connections
- UL recognized, file no. E 63 532

Typical Applications*

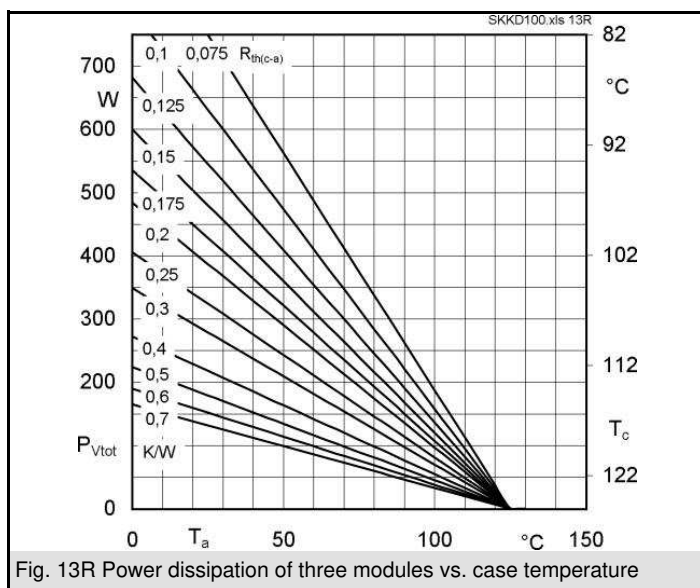
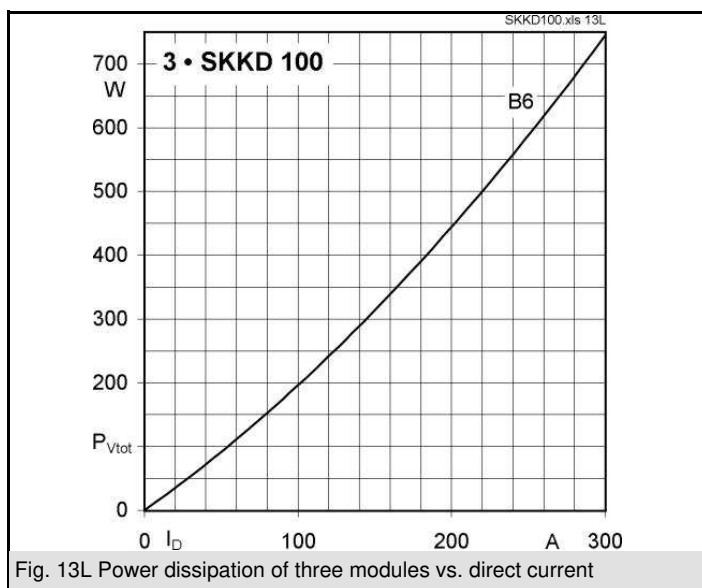
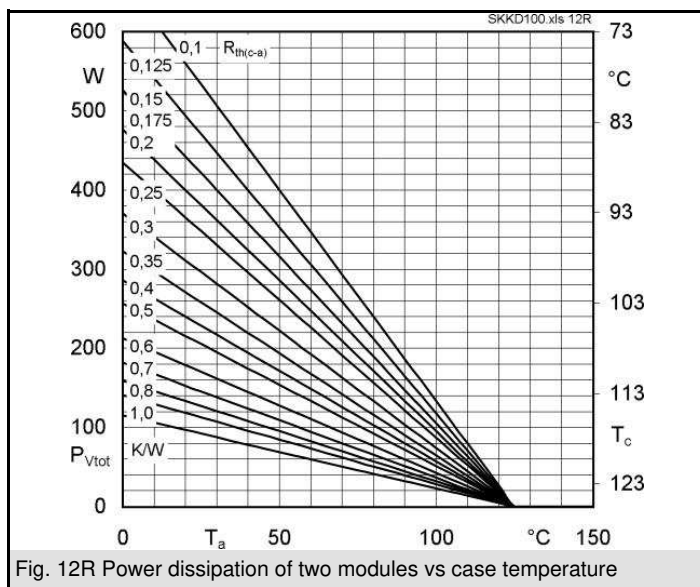
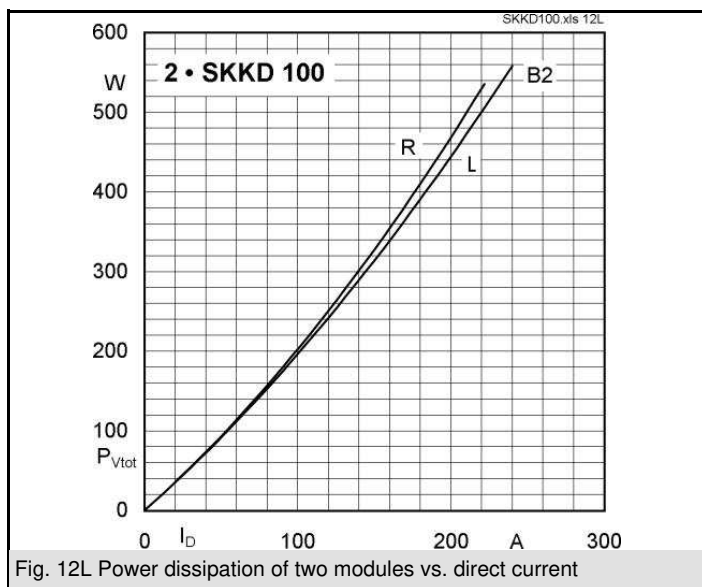
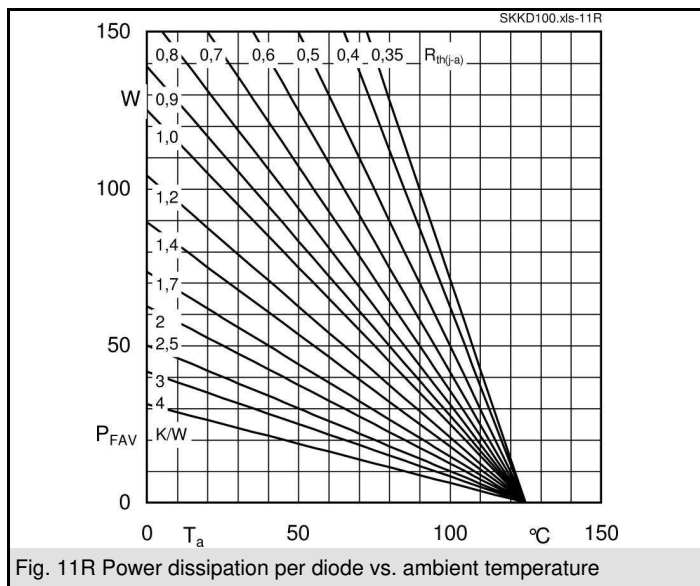
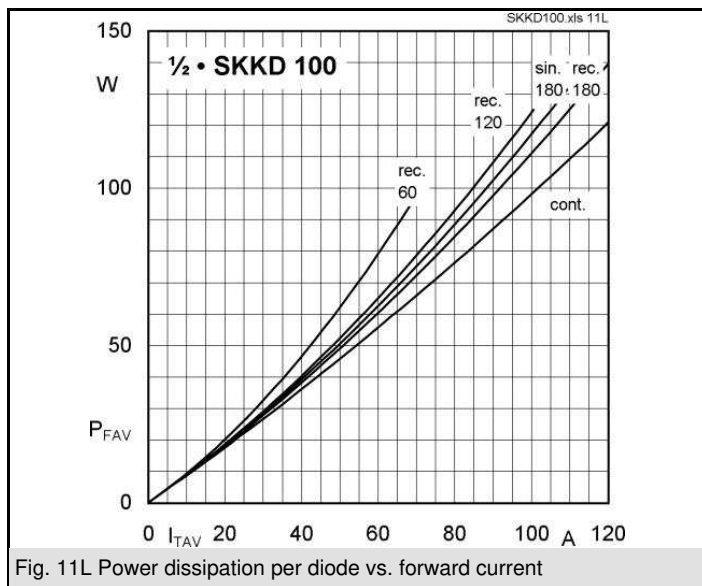
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

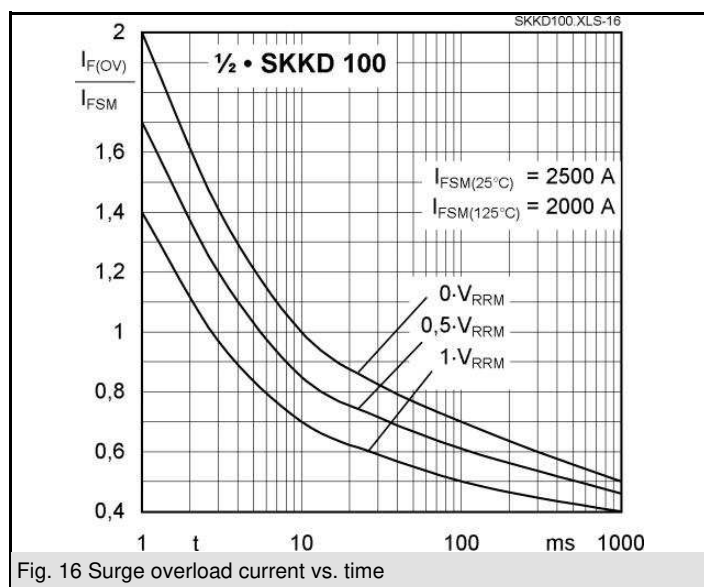
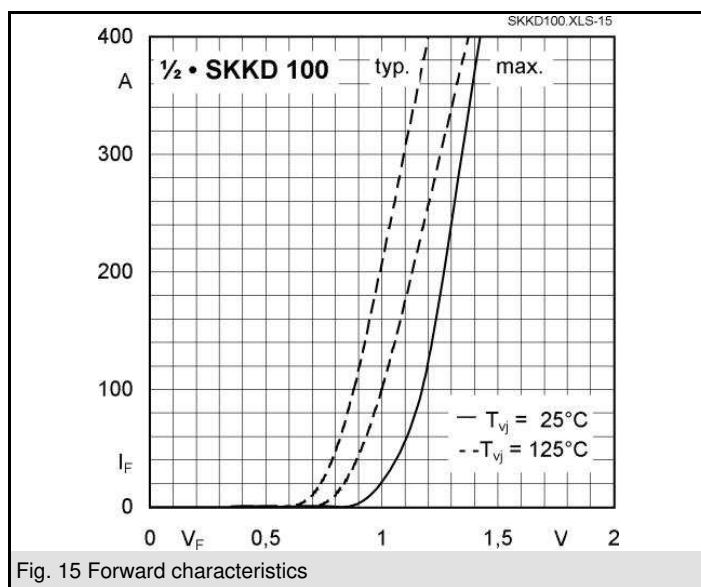
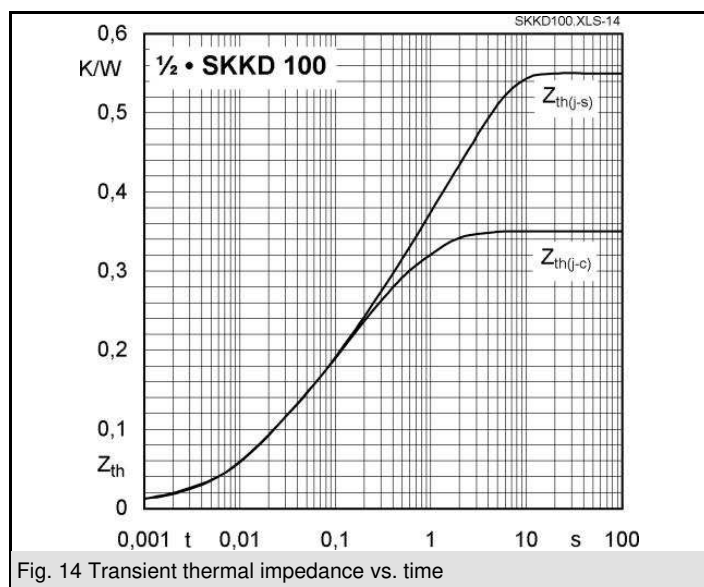
| V_{RSM} V | V_{RRM} V | $I_{FRMS} = 175$ A (maximum value for continuous operation) $I_{FAV} = 100$ A (sin. 180; $T_c = 85$ °C) | | |
|----------------|----------------|--|--|--|
| 900 | 800 | SKKD 100/08 | | |
| 1300 | 1200 | SKKD 100/12 | | |
| 1500 | 1400 | SKKD 100/14 | | |
| 1700 | 1600 | SKKD 100/16 | | |
| 1900 | 1800 | SKKD 100/18 | | |

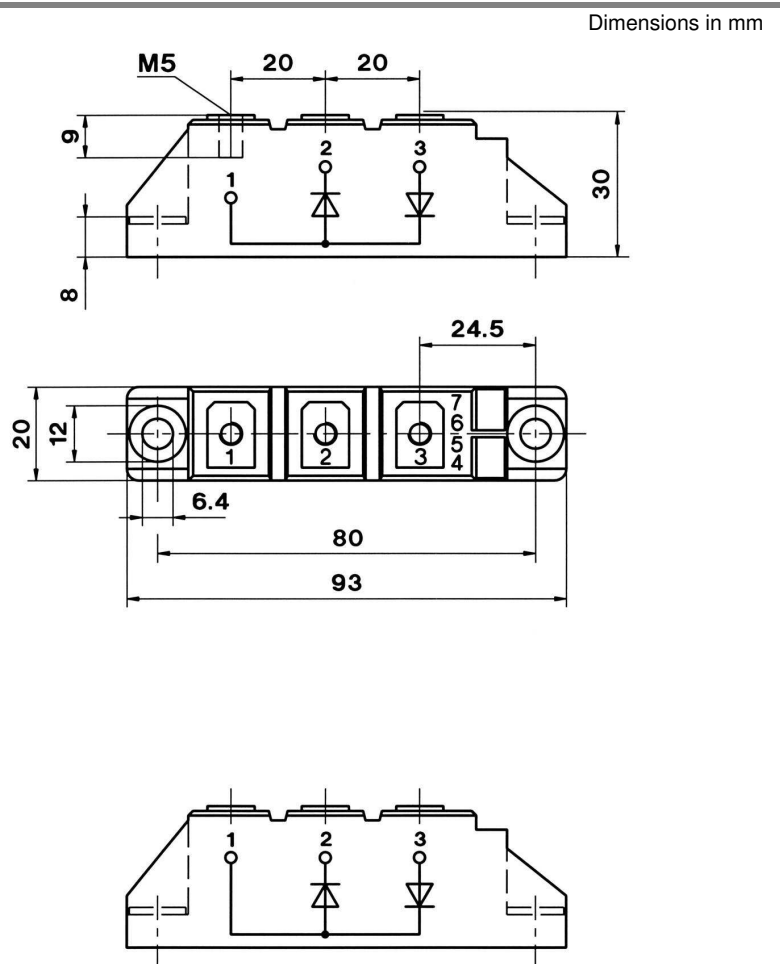
| Symbol | Conditions | Values | Units |
|---------------|---------------------------------------|----------------|-------|
| I_{FAV} | sin. 180; $T_c = 85$ (100) °C | 100 (67) | A |
| I_D | P3/180; $T_a = 45$ °C; B2 / B6 | 73 / 91 | A |
| | P3/180F; $T_a = 35$ °C; B2 / B6 | 150 / 190 | A |
| I_{FSM} | $T_{vj} = 25$ °C; 10 ms | 2500 | A |
| | $T_{vj} = 125$ °C; 10 ms | 2000 | A |
| i^2t | $T_{vj} = 25$ °C; 8,3 ... 10 ms | 31250 | A²s |
| | $T_{vj} = 125$ °C; 8,3 ... 10 ms | 20000 | A²s |
| V_F | $T_{vj} = 25$ °C; $I_F = 300$ A | max. 1,35 | V |
| $V_{(TO)}$ | $T_{vj} = 125$ °C | max. 0,85 | V |
| r_T | $T_{vj} = 125$ °C | max. 1,3 | mΩ |
| I_{RD} | $T_{vj} = 125$ °C; $V_{RD} = V_{RRM}$ | max. 5 | mA |
| $R_{th(j-c)}$ | per diode / per module | 0,35 / 0,175 | 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 |
| a | | 5 * 9,81 | m/s² |
| m | approx. | 95 | g |
| Case | SKKD | A 10 | |



SKKD







Case A 10 (SKKD)

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

*IMPORTANT INFORMATION AND WARNINGS

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