

SK 95 D



SEMITOP® 2

Bridge Rectifier

SK 95 D

Preliminary Data

Features

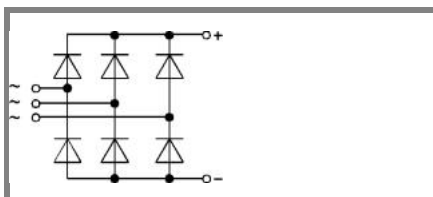
- Compact design
- One screw mounting
- Heat transfer and insulation through direct copper bonded aluminium oxide ceramic (DCB)
- Up to 1600V reverse voltage
- High surge currents
- Glass passivated diodes chips
- UL recognized, file no. E 63 532

Typical Applications

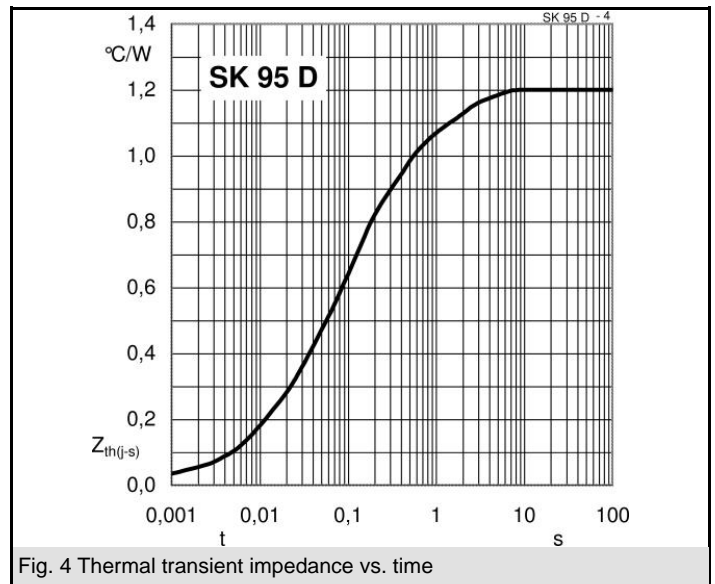
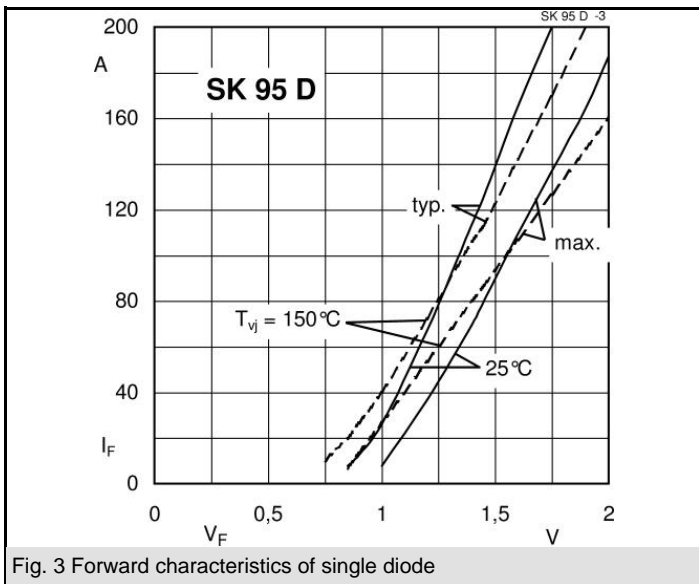
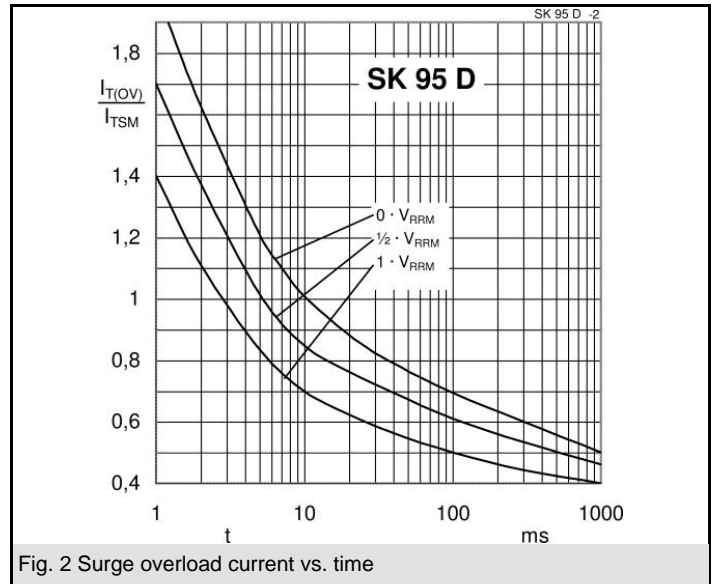
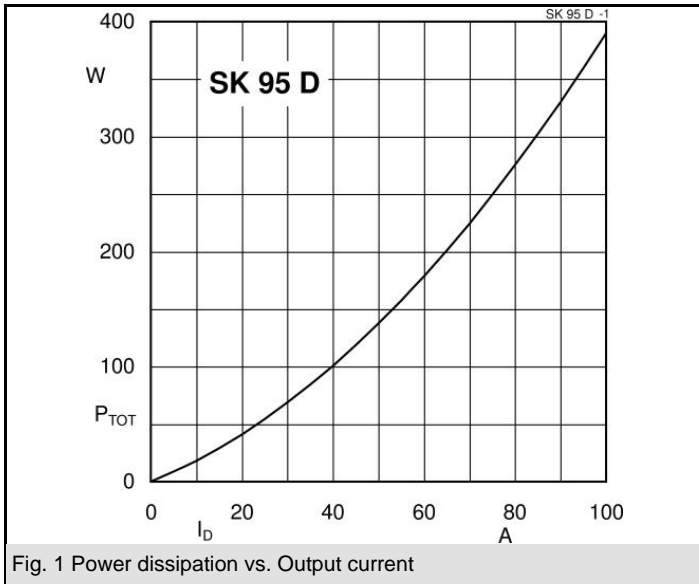
- Input rectifier for power supplies
- Rectifier

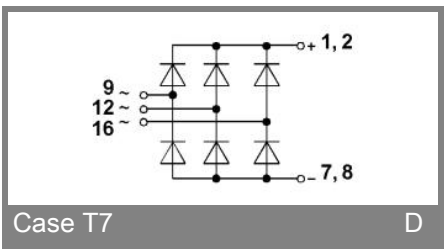
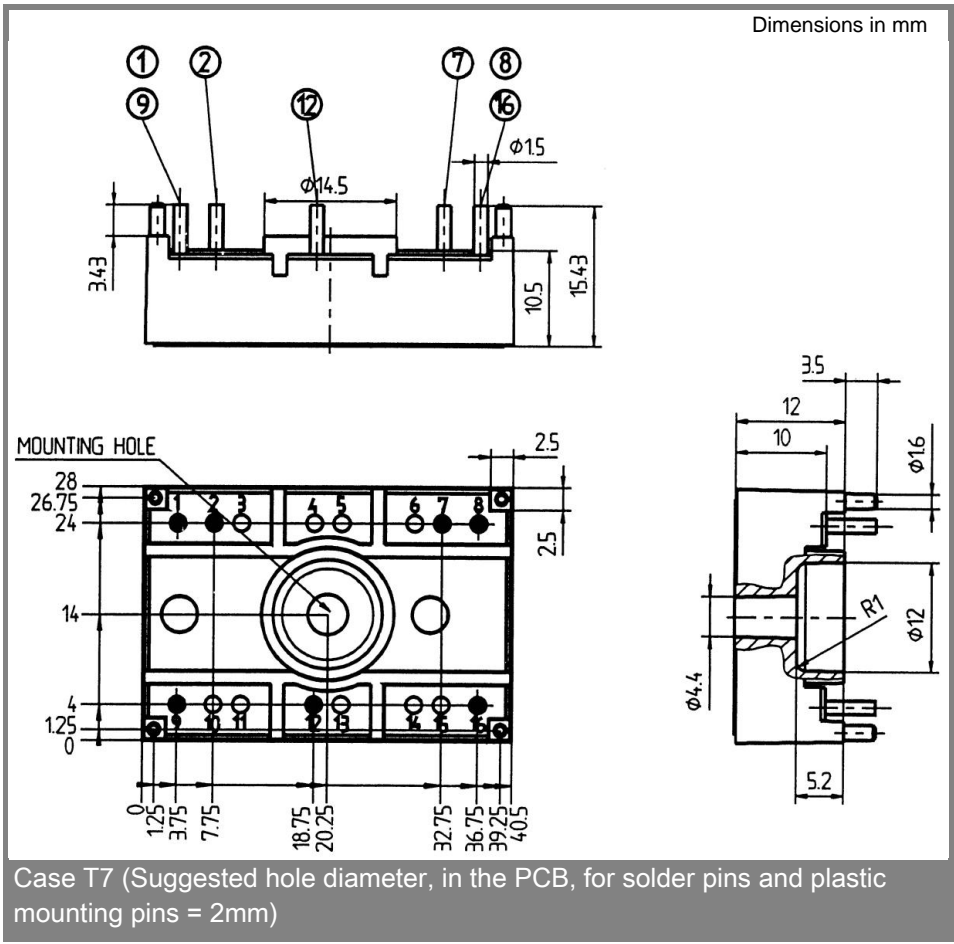
| V_{RSM} V | V_{RRM}, V_{DRM} V | $I_D = 95 \text{ A}$ (full conduction) ($T_s = 80 \text{ °C}$) |
|----------------|-------------------------|---|
| 800 | 800 | SK 95 D 08 |
| 1200 | 1200 | SK 95 D 12 |
| 1600 | 1600 | SK 95 D 16 |

| Symbol | Conditions | Values | Units |
|---------------|---|---------------|--------------------------------------|
| I_D | $T_s = 80 \text{ °C}$ | 95 | A |
| I_{FSM} | $T_{vj} = 25 \text{ °C}; 10 \text{ ms}$ $T_{vj} = 150 \text{ °C}; 10 \text{ ms}$ | 700 560 | A A |
| i^2t | $T_{vj} = 25 \text{ °C}; 8,3...10 \text{ ms}$ $T_{vj} = 150 \text{ °C}; 8,3...10 \text{ ms}$ | 2450 1370 | A ² s A ² s |
| V_F | $T_{vj} = 25 \text{ °C}; I_F = 35 \text{ A}$ | max. 1,2 | V |
| $V_{(TO)}$ | $T_{vj} = 150 \text{ °C}$ | max. 0,8 | V |
| r_T | $T_{vj} = 150 \text{ °C}$ | max. 11 | mΩ |
| I_{RD} | $T_{vj} = 150 \text{ °C}; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$ | max. 4 | mA mA |
| $R_{th(f-s)}$ | per diode per module | 1,2 0,2 | K/W K/W |
| T_{solder} | terminals, 10s | 260 | °C |
| T_{vj} | | -40...+150 | °C |
| T_{stg} | | -40...+125 | °C |
| V_{isol} | a. c. 50 Hz; r.m.s.; 1 s / 1 min. | 3000 (2500) | V |
| M_s | mounting torque to heatsink | 2 | Nm |
| M_t | | | |
| m | approx. weight | 19 | g |
| Case | SEMITOP® 2 | T 7 | |



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