

| V_{RSM}, V_{RRM} | V _{VRMS} | I _D = 50 A (T _c = 64 °C) | C _{max} | R_{min} |
|--------------------|-------------------|--|------------------|-----------|
| V | V | Types | μF | Ω |
| 200 | 60 | SKB 50/02 A3 | | 0,1 |
| 400 | 125 | SKB 50/04 A3 | | 0,3 |
| 800 | 250 | SKB 50/08 A3 | | 0,4 |
| 1200 | 380 | SKB 50/12 A3 | | 0,6 |
| 1400 | 440 | SKB 50/14 A3 | | 0,7 |
| 1600 | 500 | SKB 50/16 A3 | | 0,8 |
| | | | | |

Power Bridge Rectifiers

SKB 50

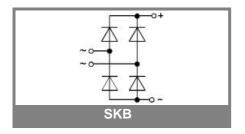
Features

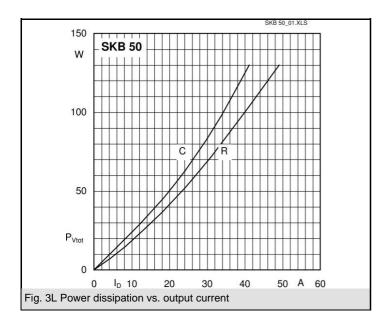
- · Isolated metal case with screw terminals
- Blocking voltage to 1600 V
- · High surge current
- · Easy chassis mounting

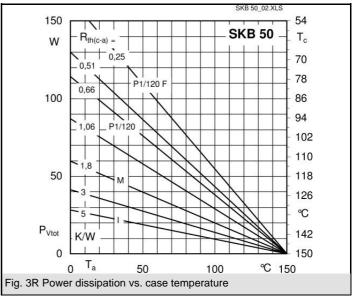
Typical Applications

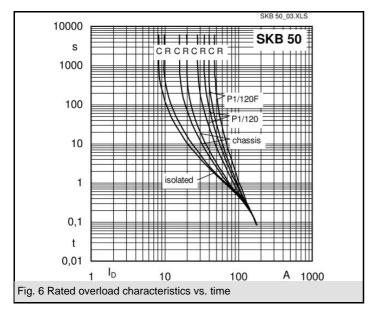
- Single phase rectifiers for power supplies
- · Input rectifiers for variable frequency drives
- · Rectifiers for DC motor field supplies
- · Battery charger rectifiers
- Recommended snubber network: RC: $0.1 \mu F$, 50Ω (P _R = 1 W)
- 1) Freely suspended or mounted on an insulator
- 2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

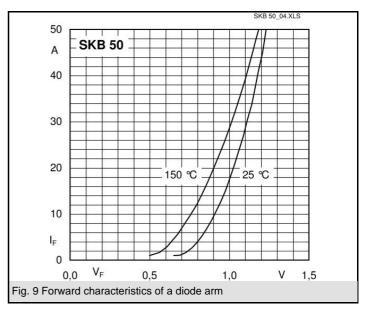
| Symbol | Conditions | Values | Units |
|----------------------|--|-------------------|-------|
| I _D | T _a = 45 °C, isolated ¹⁾ | 10 | Α |
| _ | T _a = 45 °C, chassis ²⁾ | 20 | Α |
| I _{DCL} | T _a = 45 °C, isolated ¹⁾ | 8 | Α |
| | T _a = 45 °C, chassis ²⁾ | 16 | Α |
| | T _a = 35 °C, P1A/120 F | 40 | Α |
| I _{FSM} | T _{vj} = 25 °C, 10 ms | 750 | А |
| | $T_{vi} = 150 ^{\circ}\text{C}, 10 \text{ms}$ | 600 | Α |
| i²t | T_{vj}^{3} = 25 °C, 8,3 10 ms | 2800 | A²s |
| | T _{vj} = 150 °C, 8,3 10 ms | 1800 | A²s |
| V _F | T _{vj} = 25°C, I _F = 150 A | max. 1,6 | V |
| $V_{(TO)}$ | T _{vj} = 150°C | max. 0,85 | V |
| r _T | T _{vi} = 150°C | max. 8 | mΩ |
| I_{RD} | $T_{vj}^{s} = 25^{\circ}C, V_{RD} = V_{RRM}$ | 1000 | μA |
| | $T_{vi} = {^{\circ}C}, V_{RD} = V_{RRM} \ge V$ | | μA |
| I_{RD} | $T_{vi} = 150$ °C, $V_{RD} = V_{RRM}$ | 10 | mA |
| | $T_{vj}^{s} = {^{\circ}C}, V_{RD} = V_{RRM} \ge V$ | | mA |
| t _{rr} | $T_{v_i} = 25^{\circ}C$ | 10 | μs |
| f_G | | 2000 | Hz |
| R _{th(j-a)} | isolated ¹⁾ | 5,7 | K/W |
| () ω/ | chassis ²⁾ | 2,5 | K/W |
| $R_{th(j-c)}$ | total | 0,65 | K/W |
| R _{th(c-s)} | total | 0,06 | K/W |
| T _{vi} | | - 40 + 150 | °C |
| T _{stg} | | - 55 + 150 | °C |
| V _{isol} | a.c. 50 60 Hz; r.m.s., 1 s / 1 min. | 3000/2500 | V~ |
| M _s | to heatsink | 5 ± 15 % | Nm |
| M_t | to terminals | 3 ± 15 % | Nm |
| a | | | m/s² |
| w | | 250 | g |
| Fu | | 50 | А |
| Case | | G 14 | |

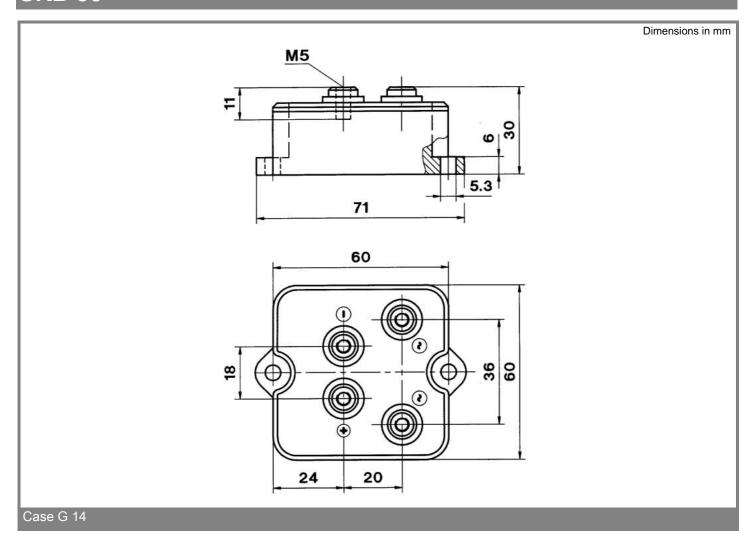












This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.