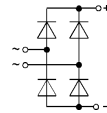


Miniature Bridge Rectifiers

SKB B ... C 1000 L5B
SKB B ... C 1500 L5B
SKBa B 500 C 1000 L5B
SKBa B 500 C 1500

| V _{RSM} V _{RRM} | V _{VRMS} V | I _D (T _{amb} = 45 °C) | | | | | |
|--------------------------------------|------------------------|---|------------------------|-----------------------|-----------------------------|------------------------|-----------------------|
| | | 1,8 A | | | 2,5 A | | |
| V | V | Types | C _{max} μF | R _{min} Ω | Types | C _{max} μF | R _{min} Ω |
| 120 | 40 | SKB B 40 C 1000 L5B | 5000 | 0,5 | SKB B 40 C 1500 L5B | 7000 | 0,4 |
| 400 | 125 | SKB B 80 C 1000 L5B | 1600 | 1,5 | SKB B 80 C 1500 L5B | 2200 | 1,1 |
| 800 | 250 | SKB B 250 C 1000 L5B | 800 | 3 | SKB B 250 C 1500 L5B | 1000 | 2,5 |
| 1000 | 380 | SKB B 380 C 1000 L5B | 600 | 4,5 | SKB B 380 C 1500 L5B | 700 | 4 |
| 1200 | 500 | SKB B 500 C 1000 L5B | 400 | 6 | SKB B 500 C 1500 L5B | 500 | 5 |
| V _(BR) min | V _{VRMS} V | Avalanche Types | | | | | |
| 1300 | 500 | SKBa B 500 C 1000 L5B | 400 | 6 | SKBa B 500 C 1500 | 500 | 5 |

| Symbol | Conditions | SKB B...C 1000 SKBa B 500 C 1000 | SKB B...C 1500 SKBa B 500 C 1500 |
|-------------------|---|--|--|
| I _D | T _{amb} = 45 °C; isolated ¹⁾ chassis ²⁾ | 1,2 A 1,8 A | 1,5 A - |
| I _{DCL} | T _{amb} = 33 °C; isolated ¹⁾ T _{amb} = 45 °C; isolated ¹⁾ chassis ²⁾ | - 1 A 1,5 A | 1,5 A - - |
| I _{FSM} | T _{vj} = 25 °C, 10 ms T _{vj} = 150 °C, 10 ms | 58 A 50 A | 80 A 70 A |
| i ² t | T _{vj} = 25 °C, 8,3 ... 10 ms T _{vj} = 150 °C, 8,3 ... 10 ms | 17 A ² s 12,5 A ² s | 32 A ² s 24,5 A ² s |
| P _{RSM} | t _p = 10 μs; avalanche types | 1000 W | 1000 W |
| V _F | T _{vj} = 25 °C; I _F = 10 A | 1,65 V | 1,5 V |
| V _(TO) | T _{vj} = 150 °C | 0,85 V | 0,85 V |
| r _T | T _{vj} = 150 °C | 100 mΩ | 60 mΩ |
| I _{RD} | T _{vj} = 25 °C; V _{RD} = V _{RRM} = 120 V ≥ 400 V V _{RD} = V _{(BR)min} T _{vj} = 150 °C; V _{RD} = V _{RRM} = 120 V ≥ 400 V | | 20 μA 5 μA 5 μA 1 mA 0,6 mA |
| t _{rr} | T _{vj} = 25 °C | | typ. 10 μs |
| f _g | | | 2000 Hz |
| R _{thja} | isolated ¹⁾ chassis ²⁾ | 42 °C/W 27 °C/W | 36 °C/W - |
| T _{vj} | | | - 40...+ 150 °C |
| T _{stg} | | | - 55...+ 150 °C |
| RC | P _R = 1 W | | 10 nF + 20...50 Ω |
| F _u | | 1,5 A | 2 A |
| w | | 2 g | 2 g |
| Case | | | G 2 |



Features

- Compact plastic package with in-line terminals
- High blocking voltage
- SKBa with avalanche characteristics

Typical Applications

- Internal power supplies for electronic equipment
- DC power supplies
- Control equipment
- TV sets
- Avalanche types for inductive loads:
Solenoids,
Motor brakes

¹⁾ Freely suspended or mounted on an insulator

²⁾ Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

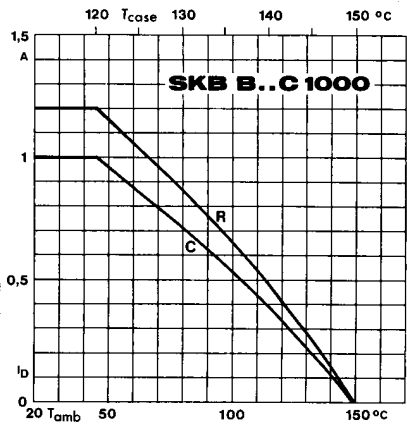


Fig. 1 a Rated output current vs. ambient temperature

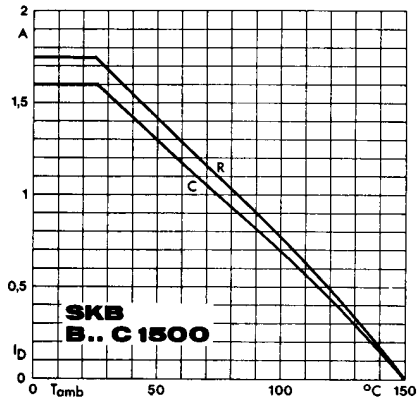


Fig. 1 b Rated output current vs. ambient temperature

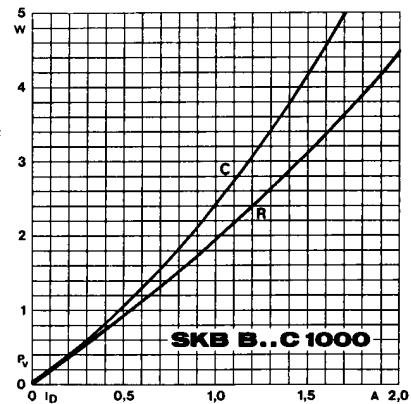


Fig. 2 a Power dissipation vs. output current

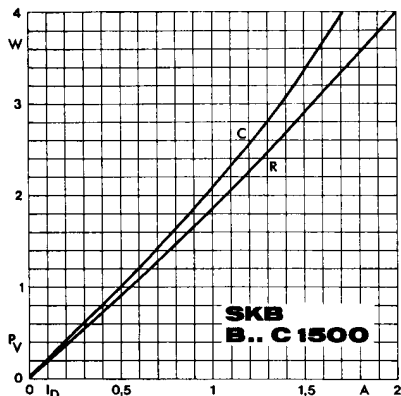


Fig. 2 b Power dissipation vs. output current

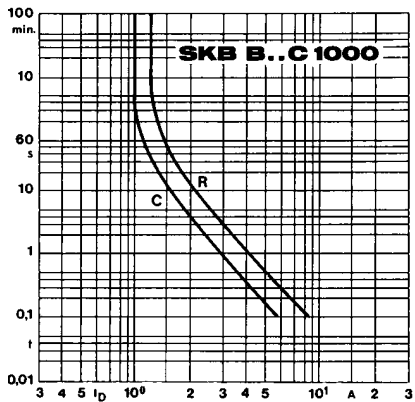


Fig. 6 a Rated overload current vs. time

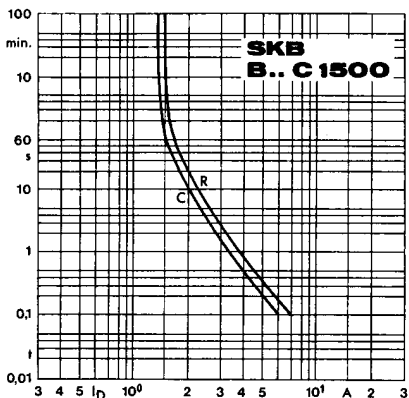


Fig. 6 b Rated overload current vs. time

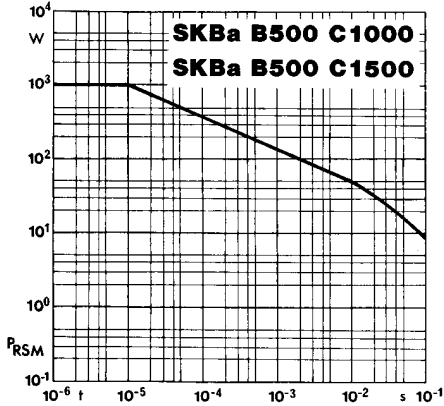


Fig. 7 Rated reverse power dissipation vs. time

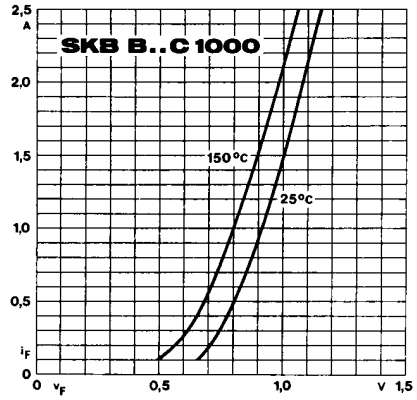


Fig. 9 a Forward characteristics of a single diode

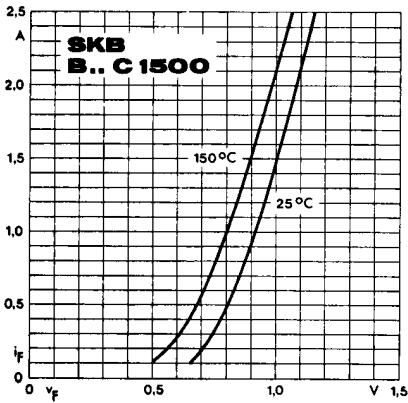
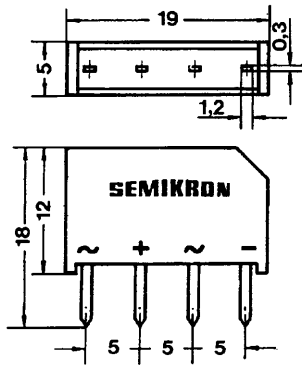
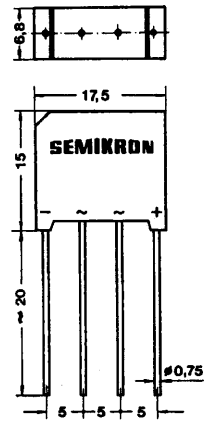


Fig. 9 b Forward characteristics of a single diode

SKB B... C 1000 L5B SKB B... C 1500 L5B
SKBa B 500 C 1000 L5B SKBa B 500 C 1500
Case G 2



SKB 2
Case G 4



Dimensions in mm