

Miniature Bridge Rectifiers

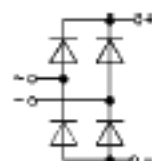
SKB B ... C 3200/2200
SKBa B ... C 3200/2200

| V _{RSM} V _{RRM} | V _{V RMS} | I _D (T _{amb} = 45 °C) 4 A | | |
|--------------------------------------|-------------------------|--|------------------------|-----------------------|
| | | Types | C _{max} μF | R _{min} Ω |
| 100 | 40 | SKB B 40 C3200/2200 | 10000 | 0,25 |
| 400 | 125 | SKB B 80 C3200/2200 | 3000 | 0,8 |
| 800 | 250 | SKB B 250 C3200/2200 | 1700 | 1,8 |
| 900 | 380 | SKB B 380 C3200/2200 | 1800 | 2,4 |
| 1200 | 500 | SKB B 500 C3200/2200 | 800 | 3 |
| V _{(BR)min} V | V _{V RMS} V | Avalanche Type | | |
| 1300 | 500 | SKBa B 500 C3200/2200 | 800 | 3 |

| Symbol | Conditions | SKB... SKBa ... | Units |
|-------------------|--|--------------------|--------------------------------------|
| I _D | T _{amb} = 45 °C; isolated ¹⁾ chassis ²⁾ | 2,7 4,0 | A A |
| I _{DCL} | T _{amb} = 45 °C; isolated ¹⁾ chassis ²⁾ | 2,2 3,2 | A A |
| I _{FSM} | T _{Vj} = 25 °C, 10 ms T _{Vj} = 150 °C, 10 ms | 115 100 | A A |
| i ² t | T _{Vj} = 25 °C, 8,3...10 ms T _{Vj} = 150 °C, 8,3...10 ms | 66 50 | A ² s A ² s |
| P _{RSM} | t _p = 10 μs; avalanche type | 2000 | W |
| V _F | T _{Vj} = 25 °C; I _F = 10 A | 1,25 | V |
| V _(TO) | T _{Vj} = 150 °C | 0,85 | V |
| r _T | T _{Vj} = 150 °C | 24 | mΩ |
| I _{RD} | T _{Vj} = 25 °C; V _{RD} = V _{RRM} = 100 V ≥ 400 V V _{RD} = V _{(BR)min} | 20 5 5 | μA μA μA |
| | T _{Vj} = 150 °C; V _{DR} = V _{RRM} = 100 V ≥ 400 V | 1 0,6 | mA mA |
| t _r | T _{Vj} = 25 °C | typ. 10 | μs |
| f _G | | 2000 | Hz |
| R _{thja} | isolated ¹⁾ chassis ²⁾ | 22 15 | °C/W °C/W |
| T _{Vj} | | -40...+150 | °C |
| T _{stg} | | -55...+150 | °C |
| RC | P _R = 1 W | 20...50 10 | Ω nF |
| F _u | | 4 | A |
| w | | 10 | g |
| Case | | G 5 | |

1) Freely suspended or mounted on an insulator

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



Features

- Compact plastic package with in-line terminals
- High blocking voltage
- SKBa with avalanche characteristics
- Plastic material used for carries Underwriters Laboratories flammability classification 94 V-0

Typical Applications

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

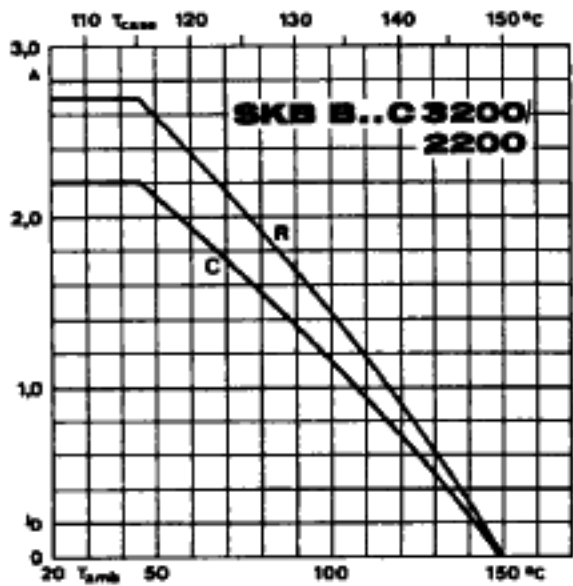


Fig. 1 Rated output current vs. ambient temperature

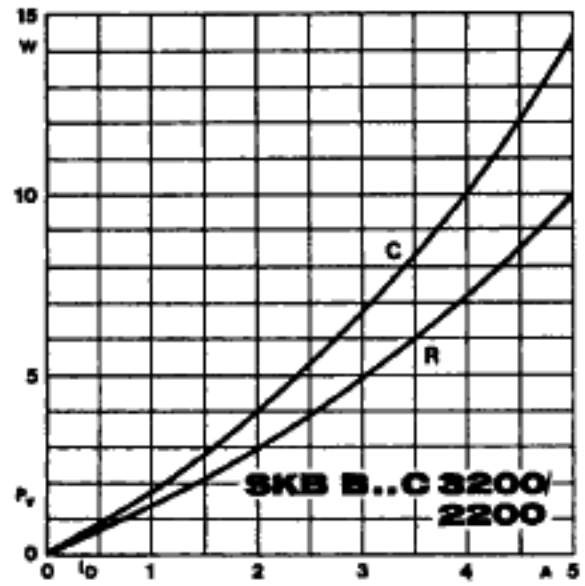


Fig. 2 Power dissipation vs. output current

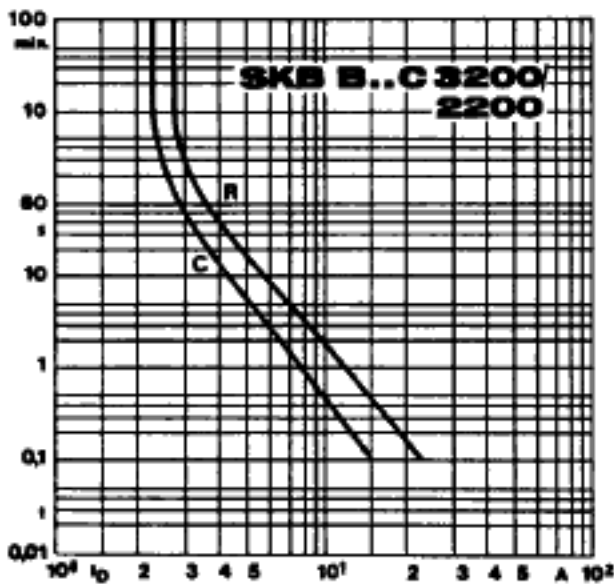


Fig. 6 Rated overload current vs. time

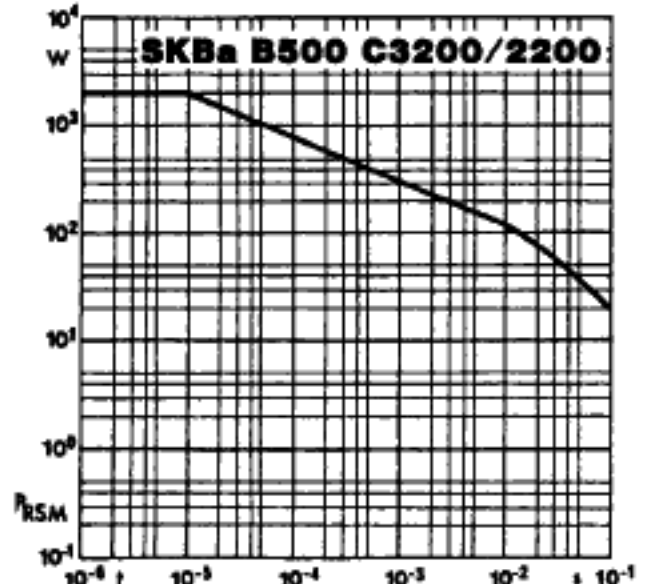


Fig. 7 Rated reverse power dissipation vs. time

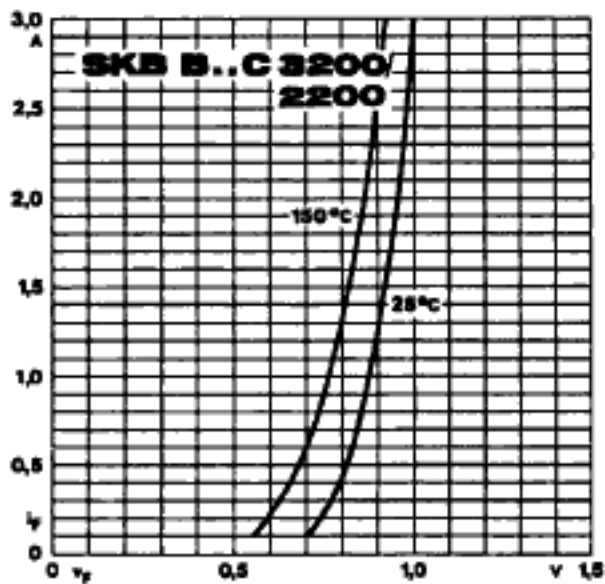
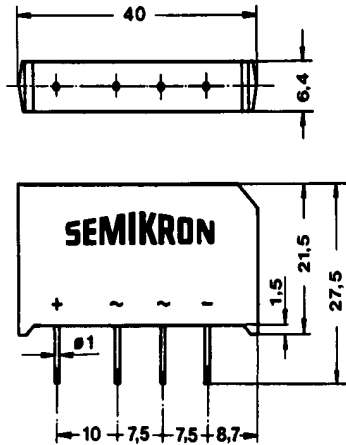


Fig. 9 Forward characteristics of a single diode

SKB B . . . C 3200/2200
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Case G 5



Dimensions in mm

No. 3233 2500

