

# SKBa B500C3200/2200



## Avalanche Bridge Rectifiers

### SKBa B500C3200/2200

#### Features

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

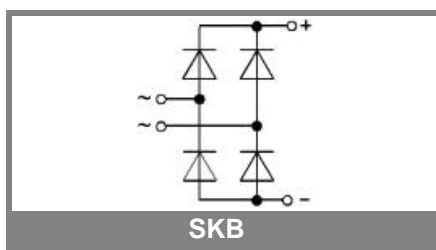
#### Typical Applications

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

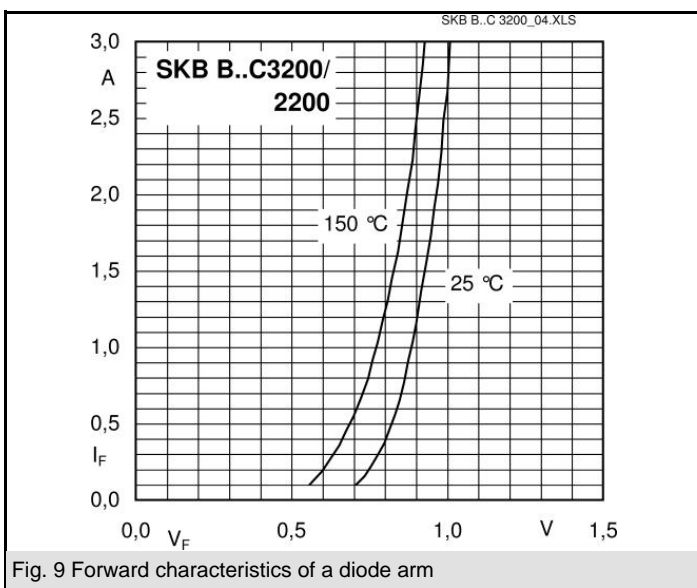
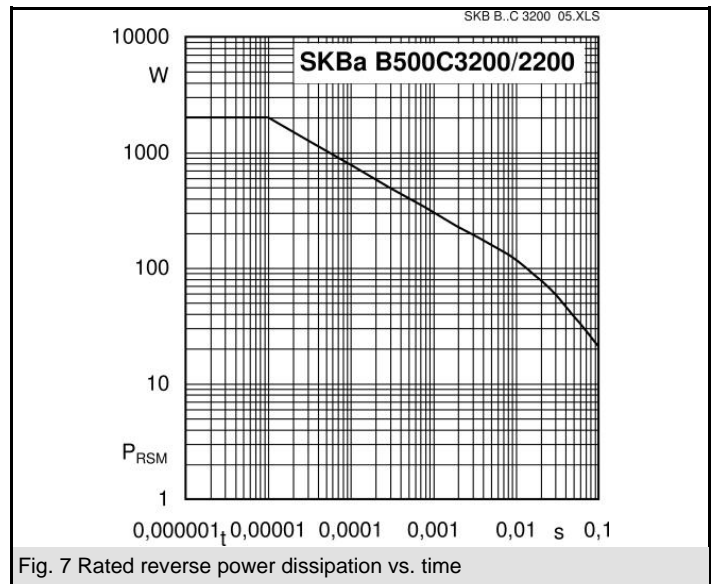
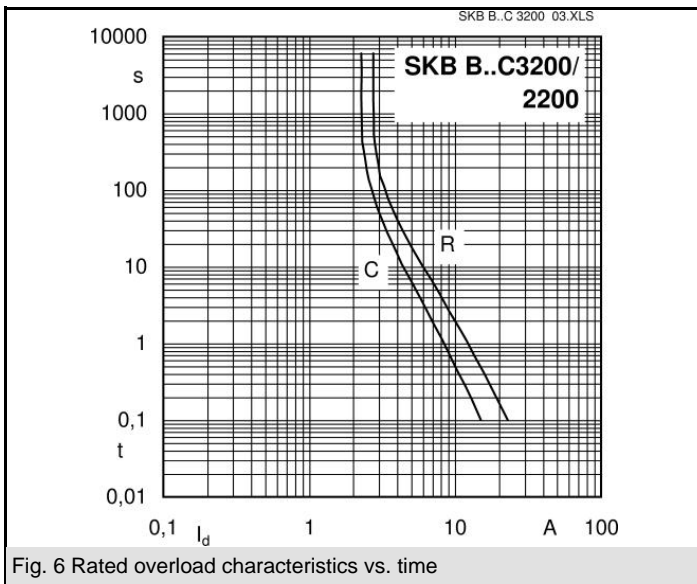
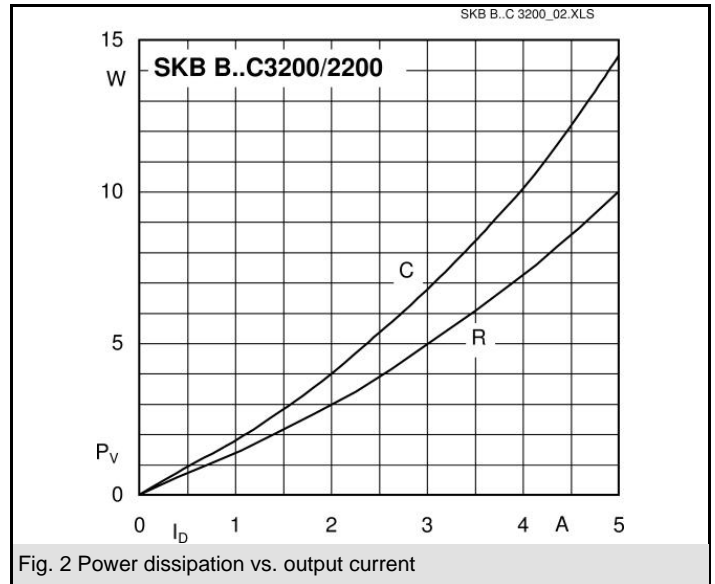
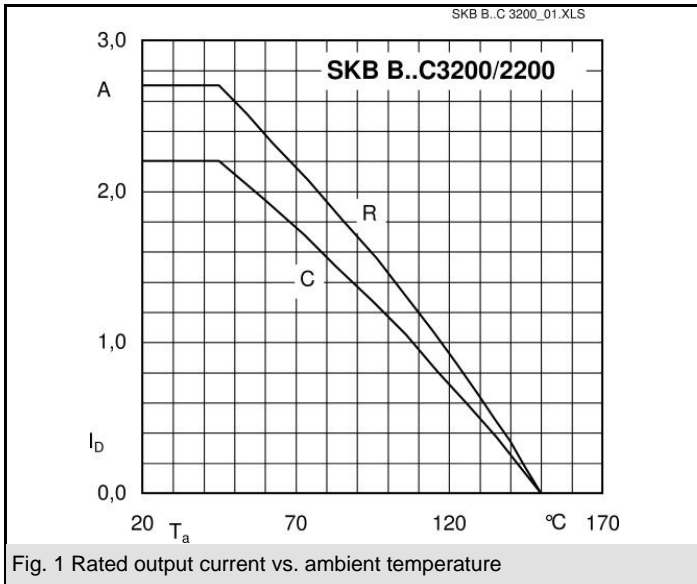
- 1) Freely suspended or mounted on an insulator
- 2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

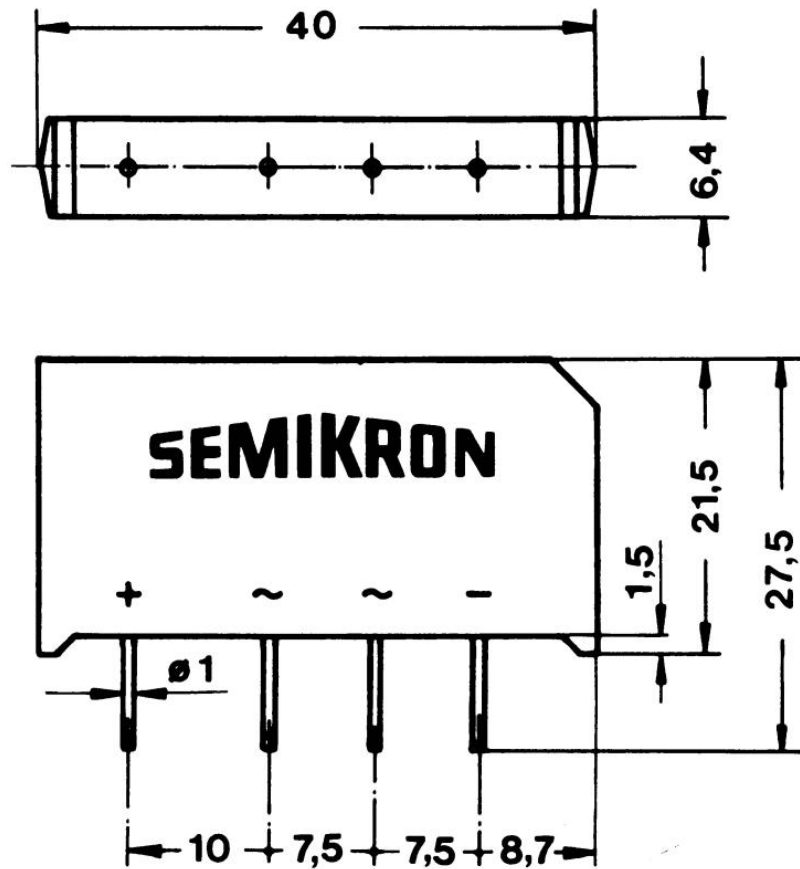
| $V_{(BR) \min}$<br>V | $V_{VRMS}$<br>V | $I_D = 4 \text{ A}$ ( $T_a = 45 \text{ }^\circ\text{C}$ )<br>Types | $C_{\max}$<br>$\mu\text{F}$ | $R_{\min}$<br>$\Omega$ |
|----------------------|-----------------|--|-----------------------------|------------------------|
| 1300                 | 500             | SKBa B500C3200/2200  | 800                         | 3                      |

| Symbol        | Conditions   | Values         | Units            |
|---------------|--|----------------|------------------|
| $I_D$         | $T_a = 45 \text{ }^\circ\text{C}$ , isolated <sup>1)</sup>       | 2,7            | A                |
|               | $T_a = 45 \text{ }^\circ\text{C}$ , chassis <sup>2)</sup>        | 4              | A                |
| $I_{DCL}$     | $T_a = 45 \text{ }^\circ\text{C}$ , isolated <sup>1)</sup>       | 2,2            | A                |
|               | $T_a = 45 \text{ }^\circ\text{C}$ , chassis <sup>2)</sup>        | 3,2            | A                |
| $I_{FSM}$     | $T_{vj} = 25 \text{ }^\circ\text{C}$ , 10 ms                     | 115            | A                |
|               | $T_{vj} = 150 \text{ }^\circ\text{C}$ , 10 ms                    | 100            | A                |
| $i^2t$        | $T_{vj} = 25 \text{ }^\circ\text{C}$ , 8,3 ... 10 ms             | 66             | A <sup>2</sup> s |
|               | $T_{vj} = 150 \text{ }^\circ\text{C}$ , 8,3 ... 10 ms            | 50             | A <sup>2</sup> s |
| $P_{RSM}$     | $t_p = 10 \mu\text{s}$   | 2000           | W                |
| $V_F$         | $T_{vj} = 25 \text{ }^\circ\text{C}$ , $I_F = 10 \text{ A}$      | max. 1,25      | V                |
| $V_{(TO)}$    | $T_{vj} = 150 \text{ }^\circ\text{C}$                            | 0,85           | V                |
| $r_T$         | $T_{vj} = 150 \text{ }^\circ\text{C}$                            | 24             | m $\Omega$       |
| $I_{RD}$      | $T_{vj} = 25 \text{ }^\circ\text{C}$ , $V_{RD} = V_{(BR) \min}$  | 5              | $\mu\text{A}$    |
| $I_{RD}$      | $T_{vj} = 150 \text{ }^\circ\text{C}$ , $V_{RD} = V_{(BR) \min}$ | 0,6            | mA               |
| $t_{rr}$      | $T_{vj} = 25 \text{ }^\circ\text{C}$                             | 10             | $\mu\text{s}$    |
| $f_G$         |  | 2000           | Hz               |
| $R_{th(j-a)}$ | isolated <sup>1)</sup>   | 22             | K/W              |
|               | chassis <sup>2)</sup>  | 15             | K/W              |
| $T_{vj}$      |  | - 40 ... + 150 | $^\circ\text{C}$ |
| $T_{stg}$     |  | - 55 ... + 150 | $^\circ\text{C}$ |
| m             |  | 10             | g                |
| Fu            |  | 4              | A                |
| Case          |  | G 5            |                  |



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Case G 5

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