

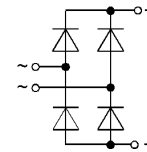
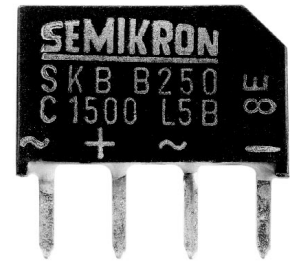
**Miniature Bridge Rectifiers**

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

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

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

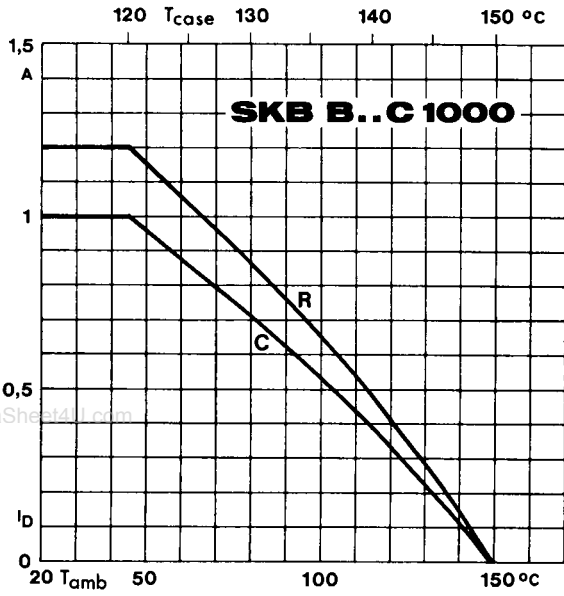


Fig. 1 a Rated output current vs. ambient temperature

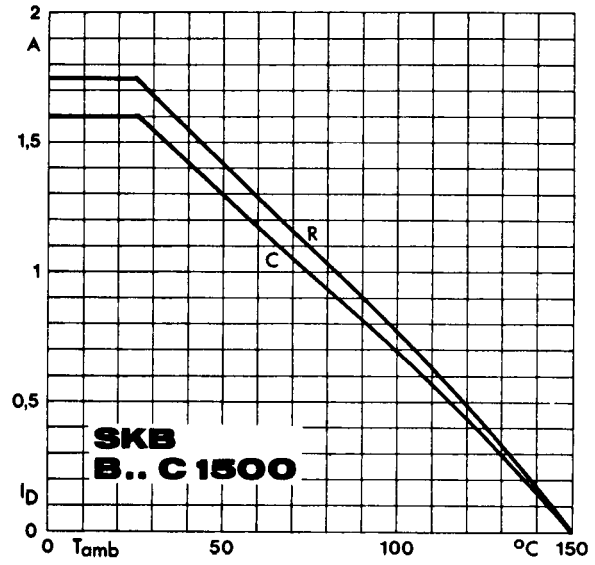


Fig. 1 b Rated output current vs. ambient temperature

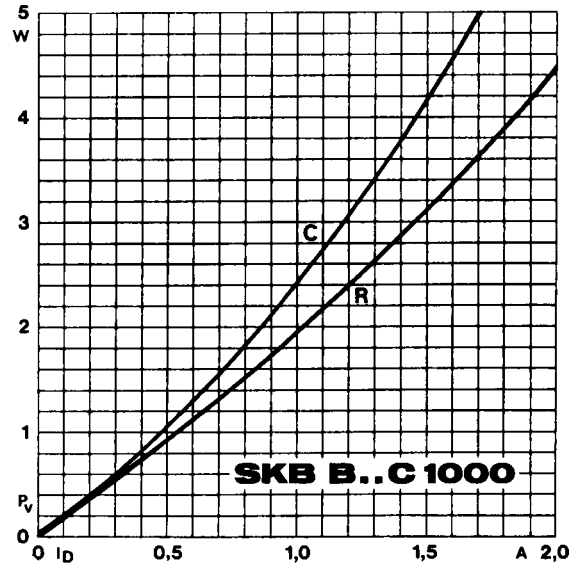


Fig. 2 a Power dissipation vs. output current

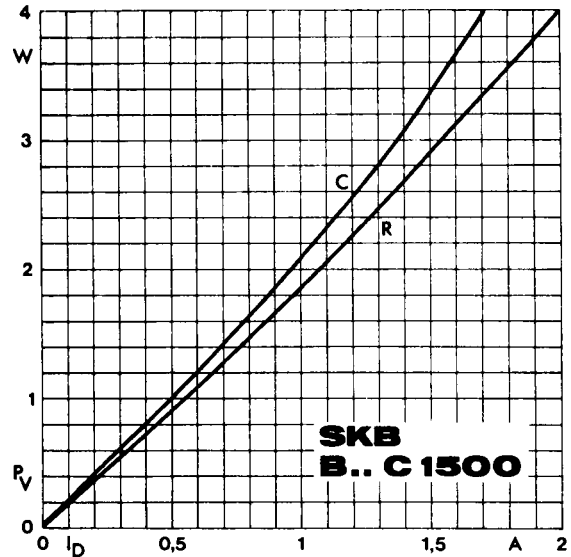


Fig. 2 b Power dissipation vs. output current

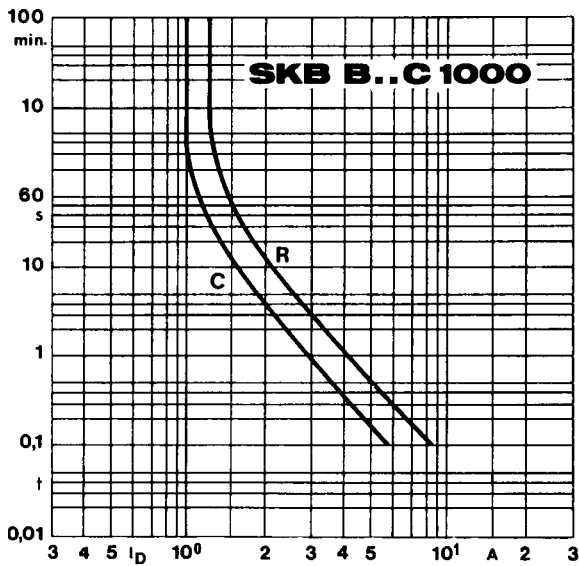


Fig. 6 a Rated overload current vs. time

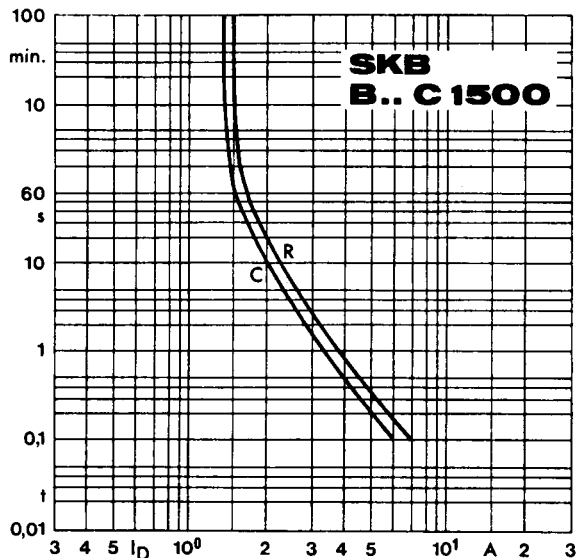


Fig. 6 b Rated overload current vs. time

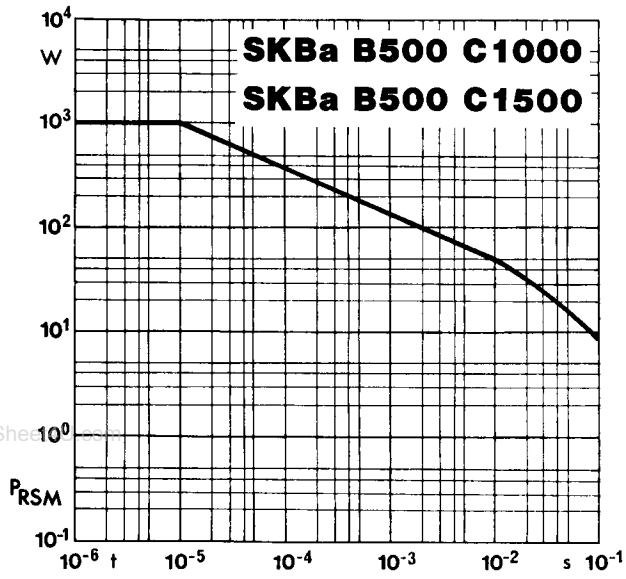


Fig. 7 Rated reverse power dissipation vs. time

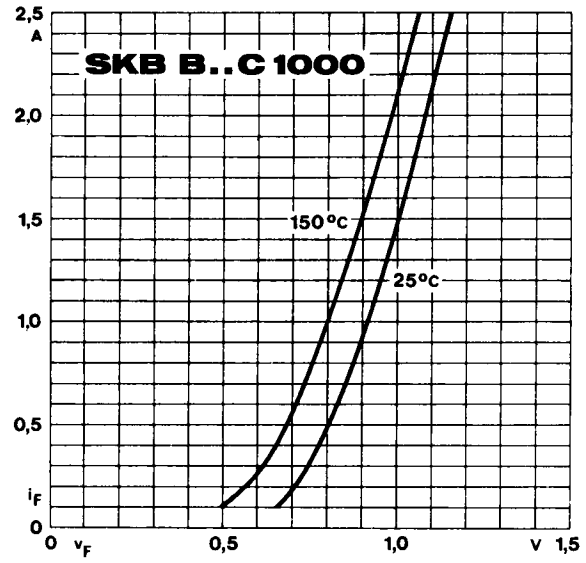


Fig. 9 a Forward characteristics of a single diode

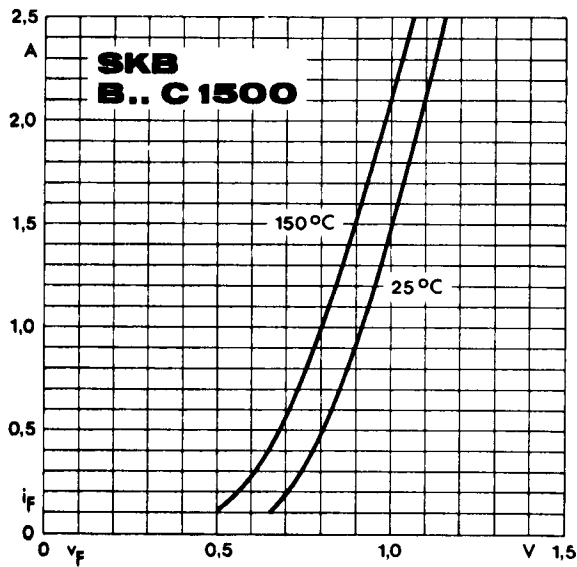
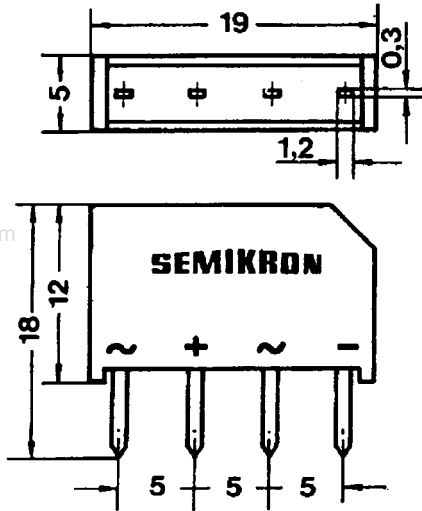
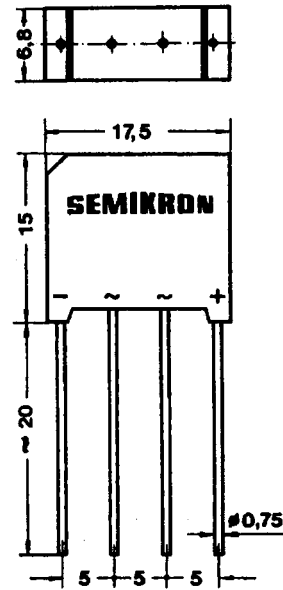


Fig. 9 b Forward characteristics of a single diode

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