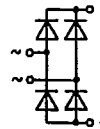


T-23-05

**SEMIKRON****Miniature Bridge Rectifiers  
SKB 1,5**

V <sub>RSM</sub> V <sub>RRM</sub>	V <sub>VRMS</sub> V	I <sub>D</sub> 1,5 A (T <sub>amb</sub> = 25 °C)		
		Types	C <sub>max</sub> μF	R <sub>min</sub> Ω
100	40	SKB 1,5/01	5000	0,5
200	80	SKB 1,5/02	3300	0,8
400	125	SKB 1,5/04	1600	1,5
800	250	SKB 1,5/08	800	3
1000	500	SKB 1,5/10	400	6

Symbol	Conditions	SKB 1,5
I <sub>D</sub>	T <sub>amb</sub> = 25 °C <sup>1)</sup> 40 °C <sup>1)</sup> T <sub>case</sub> = 65 °C; chassis <sup>2)</sup>	1,5 A
I <sub>DCL</sub>	T <sub>amb</sub> = 25 °C <sup>1)</sup> 40 °C <sup>1)</sup> T <sub>case</sub> = 65 °C; chassis <sup>2)</sup>	1,25 A
I <sub>N</sub>	T <sub>amb</sub> = 25 °C <sup>1)</sup> 40 °C <sup>1)</sup> T <sub>case</sub> = 65 °C; chassis <sup>2)</sup>	1,2 A
I <sub>NCL</sub>	T <sub>amb</sub> = 25 °C <sup>1)</sup> 40 °C <sup>1)</sup> T <sub>case</sub> = 65 °C; chassis <sup>2)</sup>	1 A
I <sub>FSM</sub>	T <sub>vj</sub> = 25 °C; 8,3 ms/10 ms T <sub>vj</sub> = 125 °C; 8,3 ms/10 ms	50 A/45 A 42 A/38 A
i <sup>2</sup> t	T <sub>vj</sub> = 25 °C; 8,3 ... 10 ms T <sub>vj</sub> = 125 °C; 8,3 ... 10 ms	10 A <sup>2</sup> s 7,2 A <sup>2</sup> s
V <sub>F</sub>	T <sub>vj</sub> = 25 °C; (I <sub>F</sub> = ...)	1,0 V (1 A)
V <sub>(TO)</sub>	T <sub>vj</sub> = 125 °C	0,8 V
r <sub>T</sub>	T <sub>vj</sub> = 125 °C	90 mΩ
I <sub>RD</sub>	T <sub>vj</sub> = 25 °C; V <sub>RD</sub> = V <sub>RRM</sub> T <sub>vj</sub> = 100 °C; V <sub>RD</sub> = V <sub>RRM</sub>	10 μA 1 mA
t <sub>rr</sub>	T <sub>vj</sub> = 25 °C; typ.	10 μs
f <sub>a</sub>		2000 Hz
R <sub>thja</sub>		36 °C/W
R <sub>thjc</sub>		
T <sub>vj</sub>		-55... + 125 °C
T <sub>stg</sub>		-55... + 150 °C
RC	P <sub>R</sub> = 1 W	20 nF + 10 Ω
F <sub>u</sub>		2 A
w		1,4 g
Case	→ page B 11 - 6	G 28

**Features**

- Small plastic case
- High blocking voltage

**Typical Applications**

- Internal power supplies for electronic equipment
- DC power supplies
- Control equipment
- TV sets

<sup>1)</sup> Mounted on a p.c.b.

<sup>2)</sup> Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

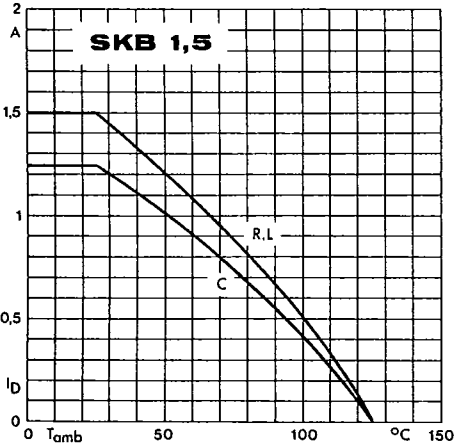


Fig. 1 Rated output current vs. ambient temperature

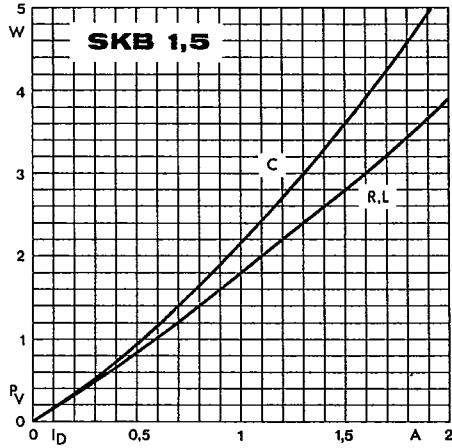


Fig. 2 Power dissipation vs. output current

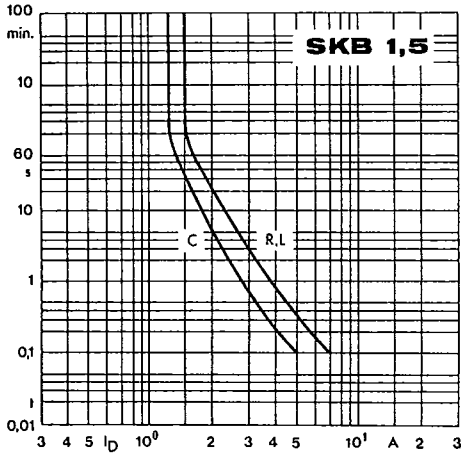


Fig. 6 Rated overload current vs. time

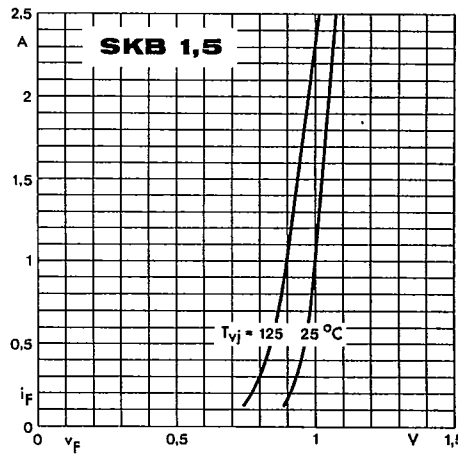


Fig. 9 Forward characteristics of a single diode