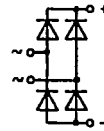
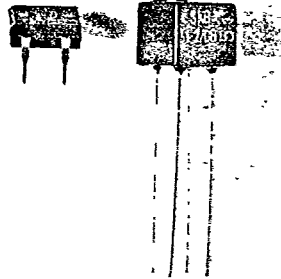


V <sub>RSM</sub> V <sub>RRM</sub>	V <sub>VRMS</sub> V	I <sub>D</sub> (T <sub>amb</sub> = ...)					
		1 A (40 °C)			1,2 A (45 °C)		
		Types	C <sub>max</sub> μF	R <sub>min</sub> Ω	Types	C <sub>max</sub> μF	R <sub>min</sub> Ω
50	20	SKB 1/005	10 000	0,5	-	-	-
100	40	SKB 1/01	5 000	1	SKB 1,2/01	5 000	0,5
200	80	SKB 1/02	2 500	2	SKB 1,2/02	3 300	0,8
400	125	SKB 1/04	1 000	4	SKB 1,2/04	1 600	1,5
800	250	SKB 1/08	500	8	SKB 1,2/08	800	3
1200	500	-	-	-	SKB 1,2/12	400	6
V <sub>(BR)</sub> V	V <sub>VRMS</sub> V	Avalanche Type					
1300	500	-	-	-	SKBa 1,2/13	400	6

**Miniature Bridge Rectifiers**

SKB 1  
SKB 1,2  
SKBa 1,2



Symbol	Conditions	SKB 1	SKB 1,2 SKBa 1,2	
I <sub>D</sub>	T <sub>amb</sub> = 45 °C <sup>1)</sup> 40 °C <sup>1)</sup>	1 A	1,2 A	
I <sub>DCL</sub>	T <sub>amb</sub> = 45 °C <sup>1)</sup> 40 °C <sup>1)</sup>	0,8 A	1 A	
I <sub>N</sub>	T <sub>amb</sub> = 45 °C <sup>1)</sup>	0,75 A	1 A	
I <sub>NCL</sub>	T <sub>amb</sub> = 45 °C <sup>1)</sup>	0,6 A	0,8 A	
I <sub>FSM</sub>	T <sub>vj</sub> = 25 °C; 8,3 ms/10 ms	38 A/35 A	64 A/58 A	
I <sup>2</sup> t	T <sub>vj max</sub> ; 8,3 ms/10 ms	33 A/30 A	55 A/50 A	
	T <sub>vj</sub> = 25 °C; 8,3 ...10 ms	6,1 A <sup>2</sup> s	17 A <sup>2</sup> s	
P <sub>PRSM</sub>	T <sub>vj max</sub> ; 8,3 ms...10 ms	4,5 A <sup>2</sup> s	12,5 A <sup>2</sup> s	
	t <sub>p</sub> = 10 μs; avalanche type		1000 W	
V <sub>F</sub>	T <sub>vj</sub> = 25 °C; (I <sub>F</sub> = ...)	1 V (1 A)	1,35 V (10 A)	
V <sub>(TO)</sub>	T <sub>vj max</sub>	0,8 V	0,85 V	
r <sub>T</sub>	T <sub>vj max</sub>	125 mΩ	100 mΩ	
I <sub>RD</sub>	T <sub>vj</sub> = 25 °C; V <sub>RD</sub> = V <sub>RRM</sub>	≤ 200 V	10 μA	20 μA
		≤ 400 V	10 μA	5 μA
	T <sub>vj max</sub> ; V <sub>RD</sub> = V <sub>RRM</sub>	≤ 200 V	1 mA	1 mA
		≤ 400 V	1 mA	0,6 mA
t <sub>rr</sub>	T <sub>vj</sub> = 25 °C; typ.	10 μs	10 μs	
f <sub>a</sub>		2000 Hz	2000 Hz	
R <sub>thja</sub>		57 °C/W	42 °C/W	
T <sub>vj</sub>		-55... + 125 °C	-40... + 150 °C	
T <sub>atg</sub>		-55... + 150 °C	-55... + 150 °C	
RC	P <sub>R</sub> = 1 W	10 nF + 20 Ω	10 nF + 20 Ω	
F <sub>u</sub>		1,5 A	1,5 A	
w		0,5 g	3 g	
Case	→ page B 11-6	G 27	G 1	

**Features**

- Plastic case
- High blocking voltage
- SKBa with avalanche characteristics
- SKB1: Plastic material used carries Underwriters Laboratory recognition 94 V-0

**Typical Applications**

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

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

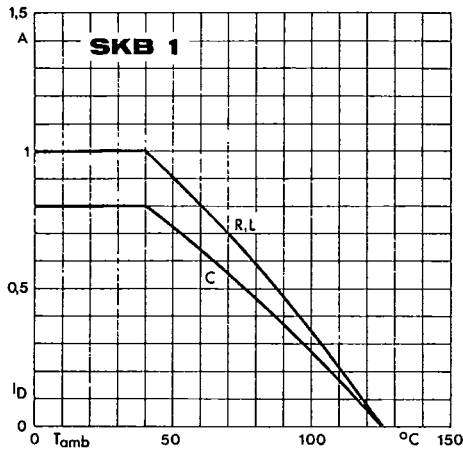


Fig. 1 a Rated output current vs. ambient temperature

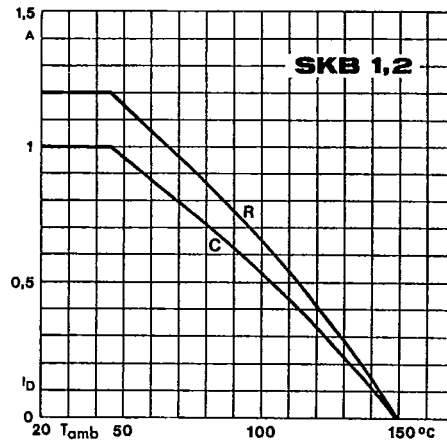


Fig. 1 b Rated output current vs. ambient temperature

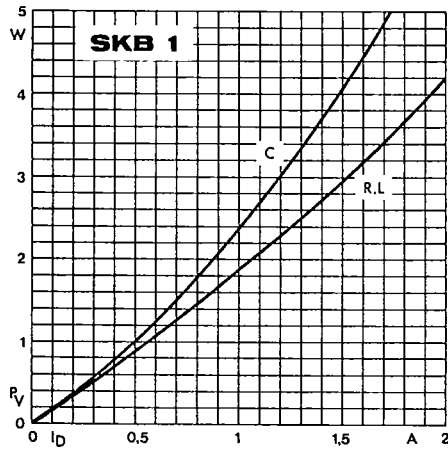


Fig. 2 a Power dissipation vs. output current

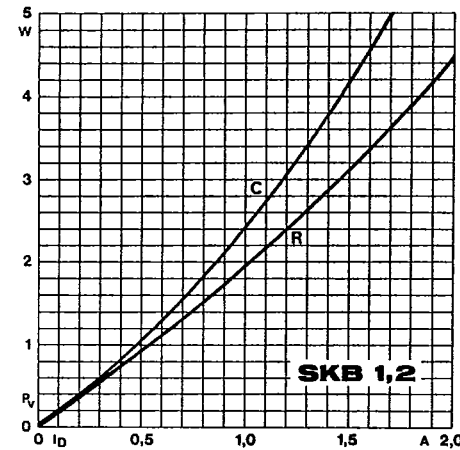


Fig. 2 b Power dissipation vs. output current

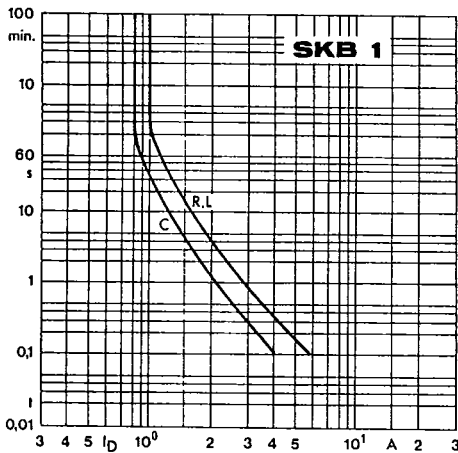


Fig. 6 a Rated overload current vs. time

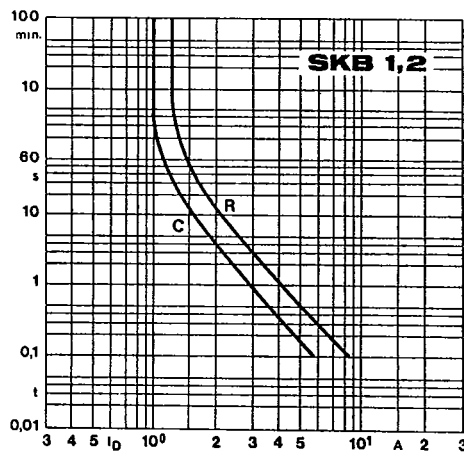


Fig. 6 b Rated overload current vs. time

T-23-05

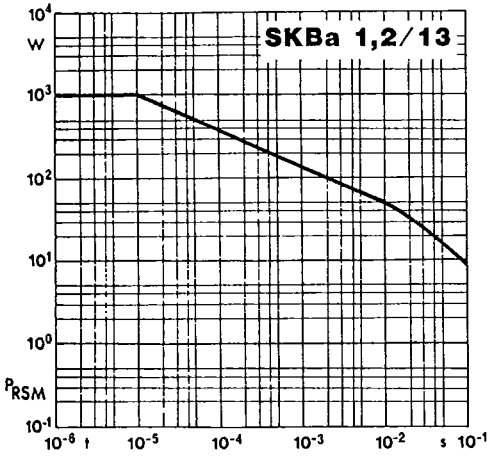


Fig. 7 Rated reverse power dissipation vs. time

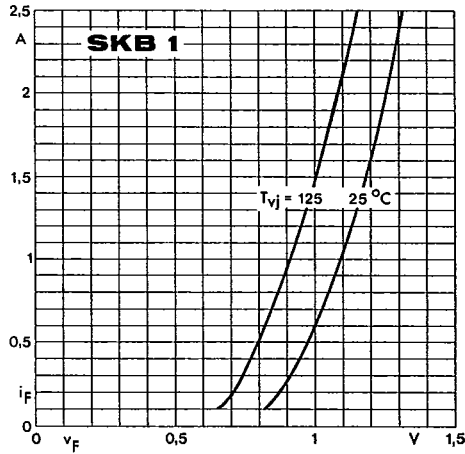


Fig. 9 a Forward characteristics of a single diode

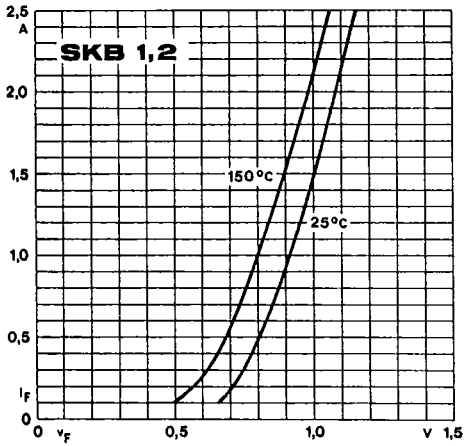
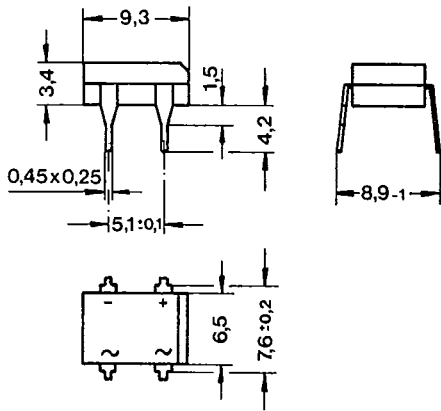


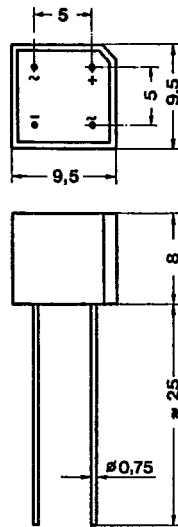
Fig. 9 b Forward characteristics of a single diode

**SKB 1**  
Case G 27



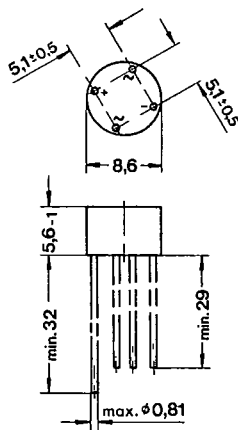
Dimensions in mm

**SKB 1,2**  
**SKBa 1,2**  
Case G1



Dimensions in mm

**SKB 1,5**  
Case G 28



Dimensions in mm