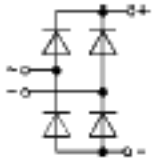
Miniature Bridge Rectifiers

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

V_{RSM} V_{RRM} V	V_{VRMS} V	I_D (T_{amb} = 45 °C) 4 A Types	Cmax µF	Rmin 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	1,6
900	380	**SKB B 380 C3200/2200**	1800	2,4
1200	500	**SKB B 500 C3200/2200**	800	3
$V_{(BR)min}$ V	V_{VRMS} 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]	2,7	A
	chassis[2]	4,0	A
I_{DCL}	T_{amb} = 45 °C; isolated[1]	2,2	A
	chassis[2]	3,2	A
I_{FSM}	T_{vj} = 25 °C, 10 ms	115	A
	T_{vj} = 150 °C, 10 ms	100	A
i^2t	T_{vj} = 25 °C, 8,3...10 ms	66	A^2s
	T_{vj} = 150 °C, 8,3...10 ms	50	A^2s
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	20	µA
	≥ 400 V	5	µA
	V_{RD} = $V_{(BR)min}$	5	µA
	T_{vj} = 150 °C; V_{DR} = V_{RRM} = 100 V	1	mA
	≥ 400 V	0,6	mA
t_{rr}	T_{vj} = 25 °C	typ. 10	µs
f_G		2000	Hz
R_{thja}	isolated[1]	22	°C/W
	chassis[2]	15	°C/W
T_{vj}		– 40...+ 150	°C
T_{stg}		– 55...+ 150	°C
RC	P_R = 1 W	20...50	Ω
		10	nF
Fu		4	A
w		10	g
Case		G 5	



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

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

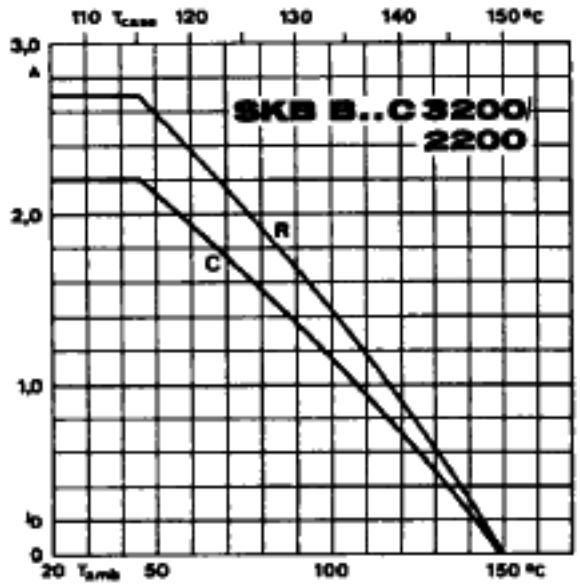


Fig. 1 Rated output current vs. ambient temperature

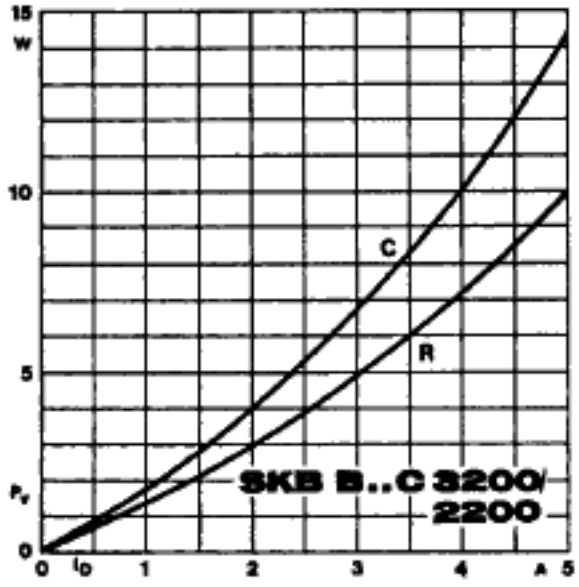


Fig. 2 Power dissipation vs. output current

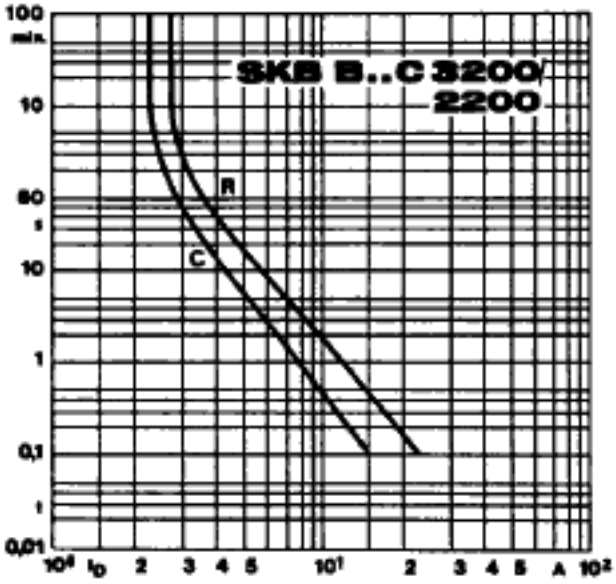


Fig. 6 Rated overload current vs. time

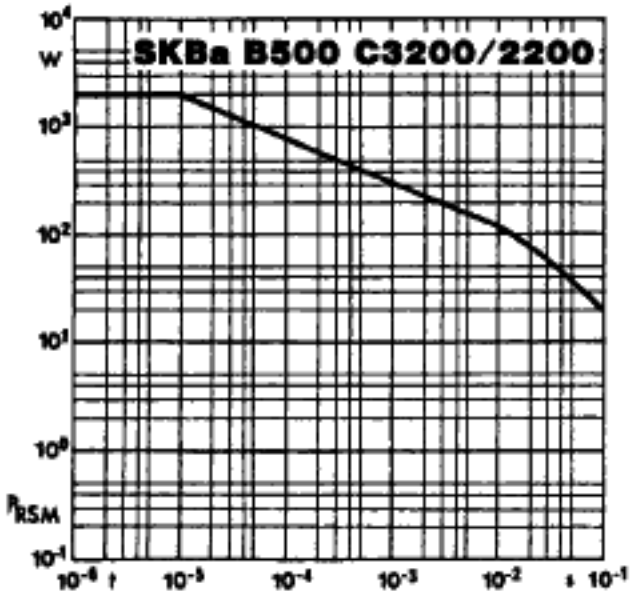


Fig. 7 Rated reverse power dissipation vs. time

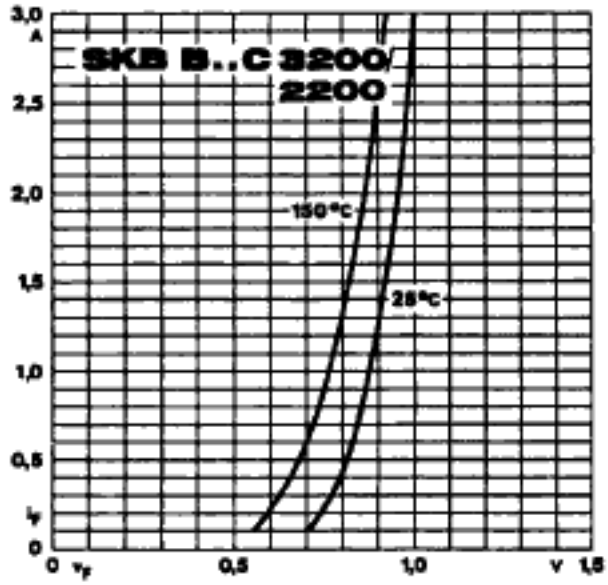
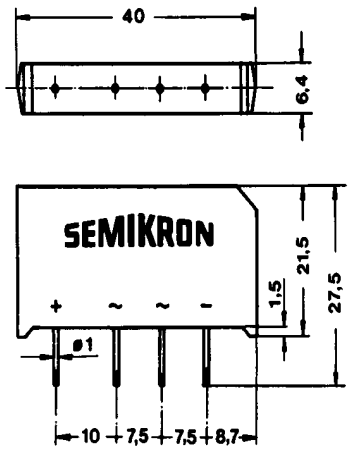


Fig. 9 Forward characteristics of a single diode

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



Dimensions in mm

No. 3233 2500