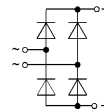


## Miniature Bridge Rectifiers

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

$V_{RSM}$ $V_{RRM}$	$V_{VRMS}$	$I_D$ ( $T_{amb} = 45^\circ\text{C}$ ) 4 A		
		Types	$C_{max}$ $\mu\text{F}$	$R_{min}$ $\Omega$
100	40	<b>SKB B 40 C3200/2200</b>	10000	0,25
400	125	<b>SKB B 80 C3200/2200</b>	3000	0,8
800	250	<b>SKB B 250 C3200/2200</b>	1700	1,6
900	380	<b>SKB B 380 C3200/2200</b>	1800	2,4
1200	500	<b>SKB B 500 C3200/2200</b>	800	3
$V_{(BR)min}$ V	$V_{VRMS}$ V	Avalanche Type		
1300	500	<b>SKBa B 500 C3200/2200</b>	800	3



### 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

Symbol	Conditions	SKB... SKBa ...	Units
$I_D$	$T_{amb} = 45^\circ\text{C}$ ; isolated <sup>1)</sup> chassis <sup>2)</sup>	2,7 4,0	A A
$I_{DCL}$	$T_{amb} = 45^\circ\text{C}$ ; isolated <sup>1)</sup> chassis <sup>2)</sup>	2,2 3,2	A A
$I_{FSM}$	$T_{vj} = 25^\circ\text{C}$ , 10 ms $T_{vj} = 150^\circ\text{C}$ , 10 ms	115 100	A A
$I^2t$	$T_{vj} = 25^\circ\text{C}$ , 8,3...10 ms $T_{vj} = 150^\circ\text{C}$ , 8,3...10 ms	66 50	$\text{A}^2\text{s}$ $\text{A}^2\text{s}$
$P_{RSM}$	$t_p = 10 \mu\text{s}$ ; avalanche type	2000	W
$V_F$	$T_{vj} = 25^\circ\text{C}$ ; $I_F = 10 \text{ A}$	1,25	V
$V_{(TO)}$	$T_{vj} = 150^\circ\text{C}$	0,85	V
$r_T$	$T_{vj} = 150^\circ\text{C}$	24	m $\Omega$
$I_{RD}$	$T_{vj} = 25^\circ\text{C}$ ; $V_{RD} = V_{RRM} = 100 \text{ V}$ $\geq 400 \text{ V}$ $V_{RD} = V_{(BR)min}$	20 5 5	$\mu\text{A}$ $\mu\text{A}$ $\mu\text{A}$
	$T_{vj} = 150^\circ\text{C}$ ; $V_{DR} = V_{RRM} = 100 \text{ V}$ $\geq 400 \text{ V}$	1 0,6	mA mA
$t_{rr}$	$T_{vj} = 25^\circ\text{C}$	typ. 10	$\mu\text{s}$
$f_G$		2000	Hz
$R_{thja}$	isolated <sup>1)</sup> chassis <sup>2)</sup>	22 15	$^\circ\text{C}/\text{W}$ $^\circ\text{C}/\text{W}$
$T_{vj}$		- 40...+ 150	$^\circ\text{C}$
$T_{stg}$		- 55...+ 150	$^\circ\text{C}$
$RC$	$P_R = 1 \text{ W}$	20...50 10	$\Omega$ nF
$F_u$		4	A
$w$		10	g
Case		G 5	

<sup>1)</sup> Freely suspended or mounted on an insulator

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

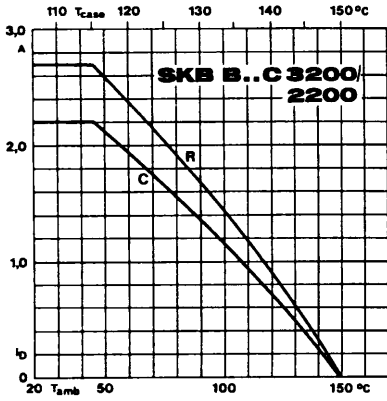


Fig. 1 Rated output current vs. ambient temperature

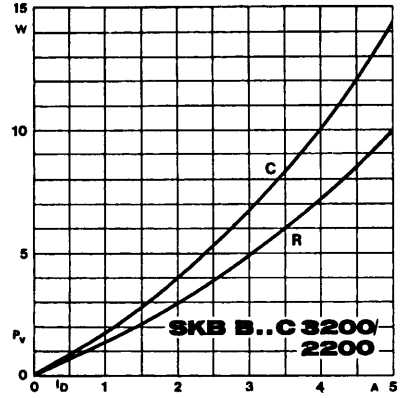


Fig. 2 Power dissipation vs. output current

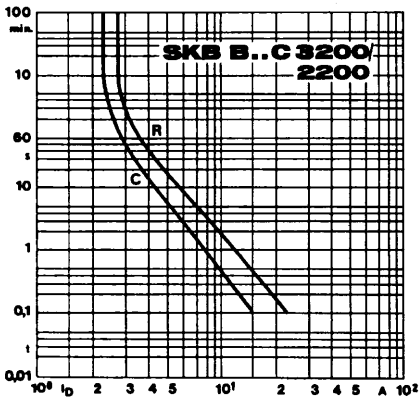


Fig. 6 Rated overload current vs. time

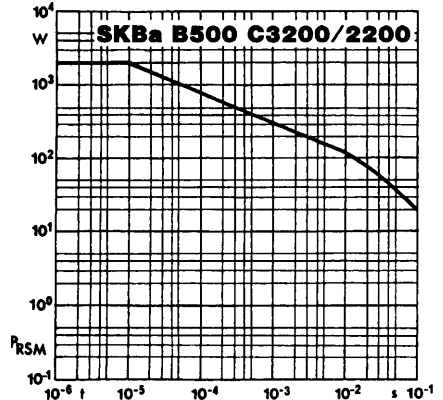


Fig. 7 Rated reverse power dissipation vs. time

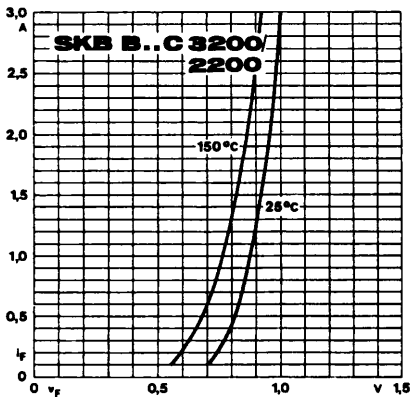
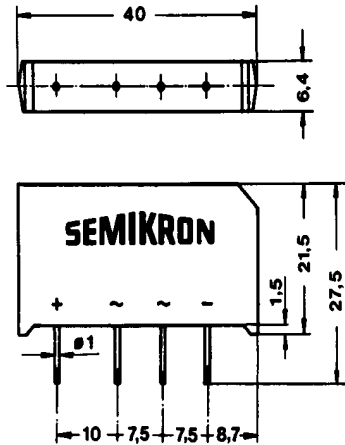


Fig. 9 Forward characteristics of a single diode

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



Dimensions in mm

No. 3233 2500

