

Product Change Notification

product group:	Miniature Bridge Rectifier	Rev.:	01
no.:	04/006		

subject of change: End of production

SEMIKRON product type: All miniature bridge rectifier of types SKB B ... C3200/2200

Product	Article Number
SKB B 40 C3200/2200	04121450
SKB B 80 C3200/2200	04121460
SKB B 250 C3200/2200	04121470
SKB B 380 C3200/2200	04219270
SKB B 500 C3200/2200	04121480
SKBa B 500 C3200/2200	04121490

description of change: Production of types SKB B ... C3200/2200 will be stopped at 2004's first half. As alternative bridges from SEMIKRON's Low Power Rectifier product line are available.

	Vrrm	Discontinued type	Vrrm	Replacement type
502421 X 502430 X	100	SKB B 40 C3200/2200	80 160	B40C 3700/2200 * B80C 3700/2200
	400	SKB B 80 C3200/2200	250 600	B125C 3700/2200 * B250C 3700/2200
	800	SKB B 250 C3200/2200	600 800	B250C 3700/2200 * B380C 3700/2200
	900	SKB B 380 C3200/2200	800 1000	B380C 3700/2200 * B500C 3700/2200
	1200	SKB B 500 C3200/2200	1000	B500C 3700/2200 *
	1300	SKBa B 500 C3200/2200		Not available

* replacement's Vrrm is smaller than discontinued's Vrrm

reason for change: Very low demand



**identification
of change:** See above

**time schedule
for change:** Orders will be accepted until May 21st, 2004
Last date of delivery is June 30th, 2004

**supporting
documentation:** n.a.

date: 13/02/2004 **author:** Clovis N.L. Gajo (SKBR)

- Please respond to this PCN by returning the attached customer approval form to your local sales partner .
- According to the IEC Standard JESD46 no response to this PCN within 30 days after receipt constitutes acceptance of the change.



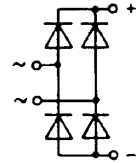
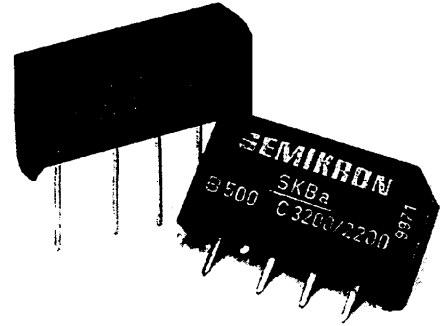
Miniature Bridge Rectifiers

SKB B ... C 3200/2200

SKB B ... C 5000/3300

SKBa B ... C 3200/2200

V_{RSM} V_{RRM}	V	$I_D (T_{amb} = 45^\circ C)$					
		4 A			8 A		
		Types	C_{max} μF	R_{min} Ω	Types	C_{max} μF	R_{min} Ω
100	40	SKB B 40 C3200/2200	10000	0,25	SKB B 40 C5000/3300	15000	0,2
200	80	—	—	—	SKB B 80 C5000/3300	10000	0,3
300	125	—	—	—	SKB B 125 C5000/3300	5000	0,4
400	125	SKB B 80 C3200/2200	3000	0,8	—	—	—
600	250	—	—	—	SKB B 250 C5000/3300	2500	0,8
800	250	SKB B 250 C3200/2200	1700	1,6	—	—	—
900	380	—	—	—	SKB B 380 C5000/3300	2000	1,2
1200	500	SKB B 500 C3200/2200	800	3	SKB B 500 C5000/3300	1200	1,6
$V_{(BR)}$ V	V_{VRMS} V	Avalanche Type					
1300	500	SKBa B 500 C3200/2200	800	3	—	—	—



Symbol	Conditions	SKB B.../SKBa B... C 3200/2200	SKB B... C 5000/3300
I_D	$T_{amb} = 45^\circ C$; isolated ¹⁾ chassis ²⁾	2,7 A 4,0 A	4 A 8,3 A
I_{DCL}	$T_{amb} = 45^\circ C$; isolated ¹⁾ chassis ²⁾	2,2 A 3,2 A	3,6 A 6,8 A
I_N	$T_{amb} = 45^\circ C$; isolated ¹⁾ chassis ²⁾	2,2 A 3,2 A	3,2 A 6,5 A
I_{NCL}	$T_{amb} = 45^\circ C$; isolated ¹⁾ chassis ²⁾	1,75 A 2,5 A	2,9 A 5,5 A
I_{FSM}	$T_{vj} = 25^\circ C$, 10 ms $T_{vj} = 150^\circ C$, 10 ms	115 A 100 A	250 A 200 A
i^2t	$T_{vj} = 25^\circ C$, 8,3...10 ms $T_{vj} = 150^\circ C$, 8,3...10 ms	66 A ² s 50 A ² s	312 A ² s 200 A ² s
P_{RSM}	$t_p = 10 \mu s$; avalanche type	2000 W	—
V_F	$T_{vj} = 25^\circ C$; ($I_F = \dots$)	1,25 V (10 A)	1,1 V (5 A)
$V_{(TO)}$	$T_{vj} = 150^\circ C$	0,85 V	0,85 V
r_T	$T_{vj} = 150^\circ C$	24 m Ω	25 m Ω
I_{RD}	$T_{vj} = 25^\circ C$; $V_{RD} = V_{RRM} \leq 200 V$ $\geq 300 V$	20 μA 5 μA	10 μA 10 μA
	$T_{vj} = 150^\circ C$; $V_{DR} = V_{RRM} \leq 200 V$ $\geq 300 V$	1 mA 0,6 mA	0,5 mA 0,5 mA
t_{rr}	$T_{vj} = 25^\circ C$	typ. 10 μs	
f_G		2000 Hz	
R_{thja}	isolated ¹⁾ chassis ²⁾	25 $^\circ C/W$ 15 $^\circ C/W$	16 $^\circ C/W$ 7 $^\circ C/W$
T_{vj}		-40... +150 $^\circ C$	-40... +175 $^\circ C$
T_{stg}		-55... +150 $^\circ C$	-40... +175 $^\circ C$
RC	$P_R = 1 W$	10 nF + 20...50 Ω	
Fu		4 A	
w		10 g	
Case	→ page B 11 – 18	G 5	G 33

Features

- Compact plastic package with in-line terminals
- High blocking voltage
- SKBa with avalanche characteristics
- C 5000/3300 with glass passivated silicon chips for highest reliability
- C 5000/3300: Plastic material used carries underwriters Laboratories recognition 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

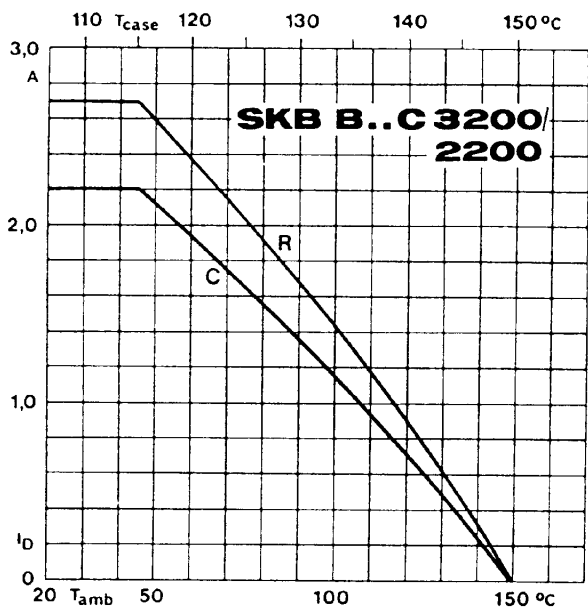


Fig. 1 a Rated output current vs. ambient temperature

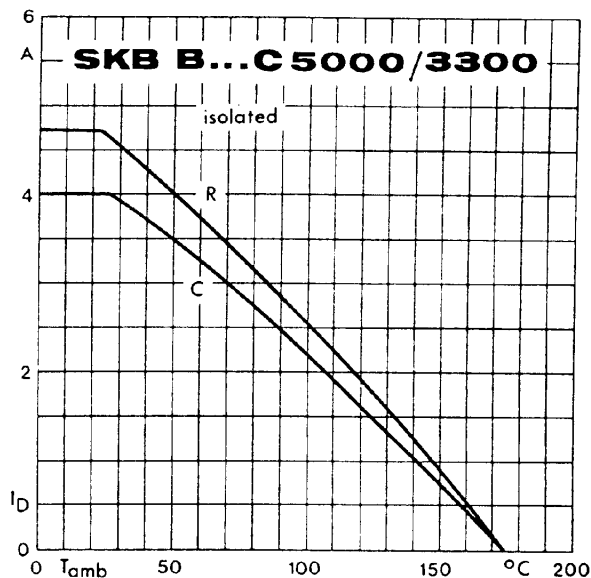


Fig. 1 b Rated output current vs. ambient temperature

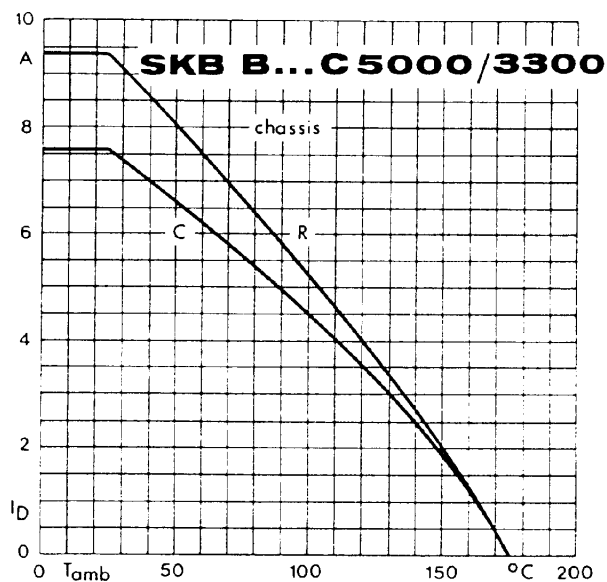


Fig. 1 c Rated output current vs. ambient temperature

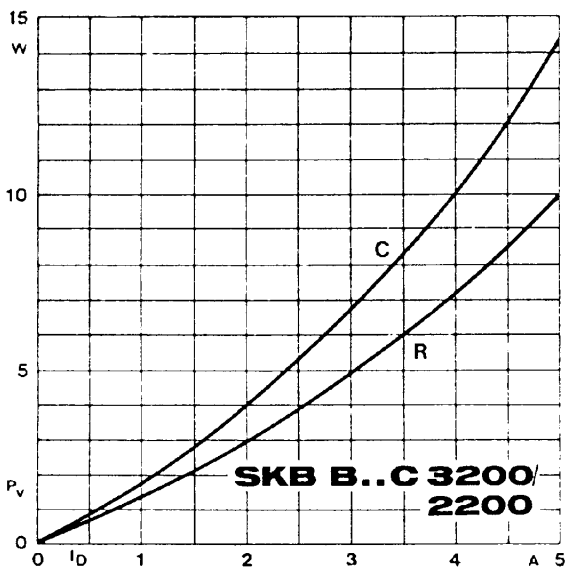


Fig. 2 a Power dissipation vs. output current

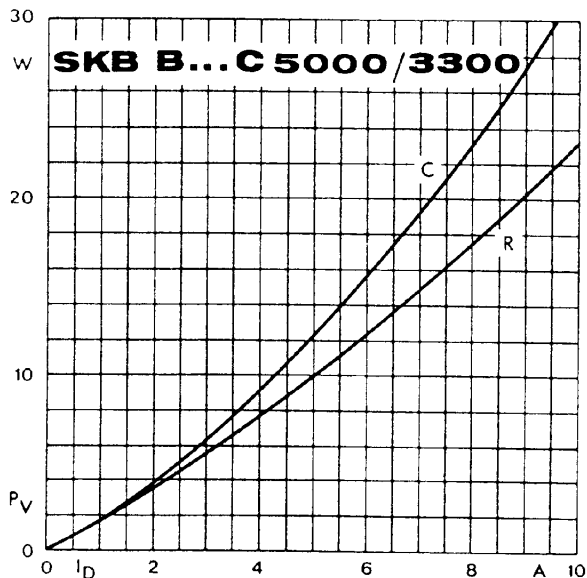


Fig. 2 b Power dissipation vs. output current

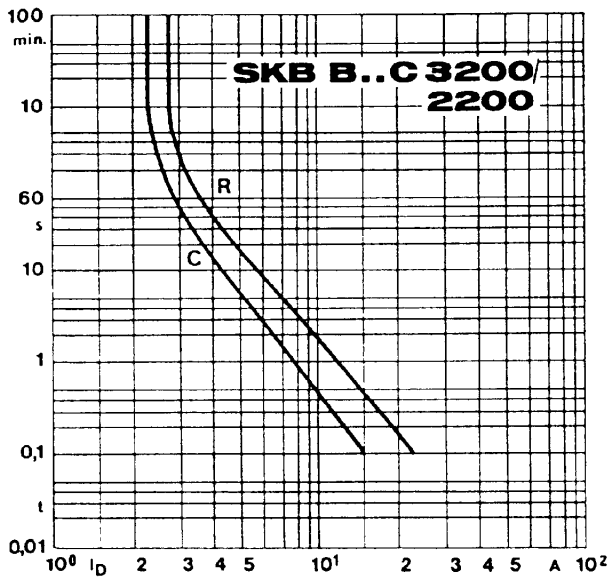


Fig. 6 a Rated overload current vs. time

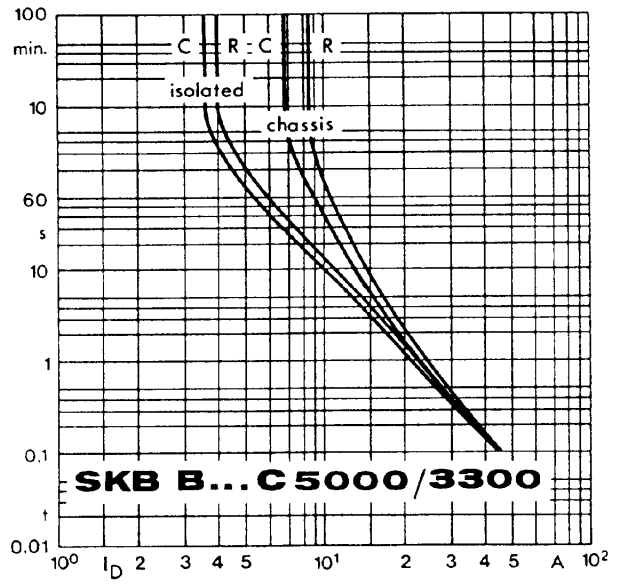


Fig. 6 b Rated overload current vs. time

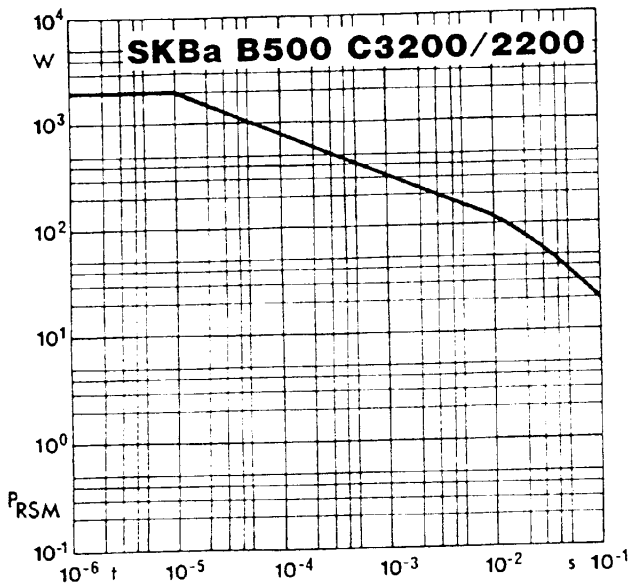


Fig. 7 Rated reverse power dissipation vs. time

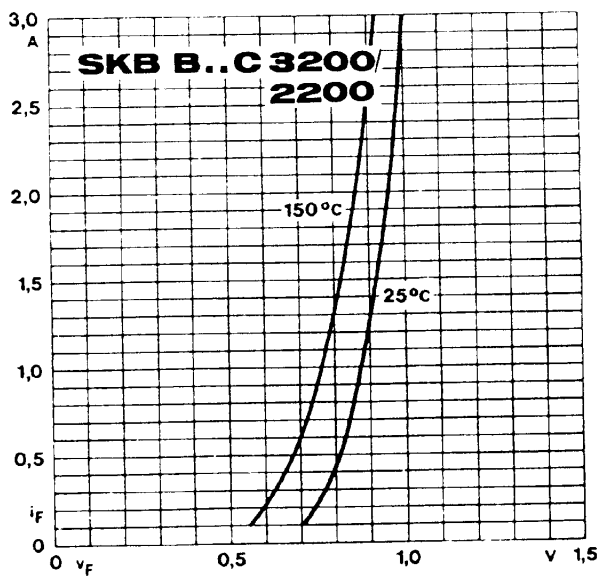


Fig. 9 a Forward characteristics of a single diode

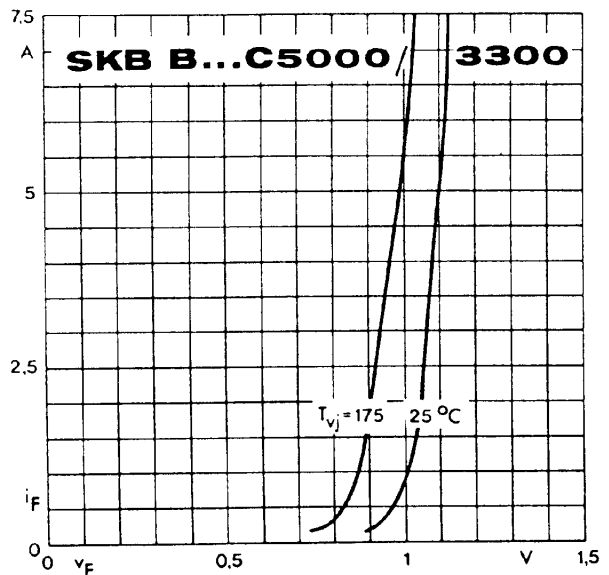
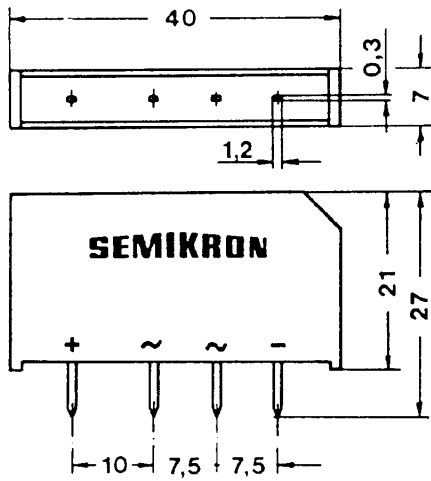


Fig. 9 b Forward characteristics of a single diode

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

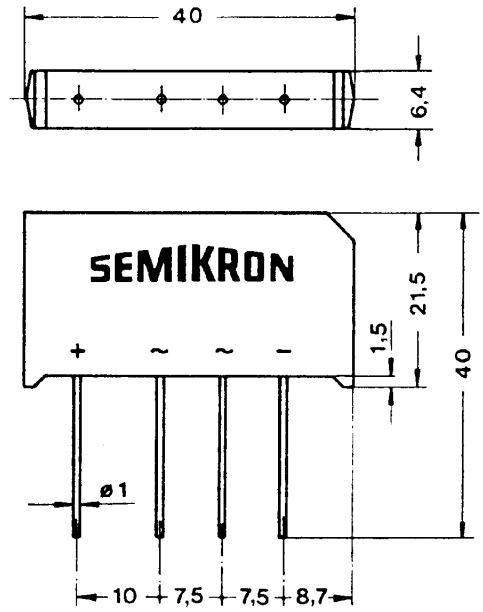
Case G 5



Dimensions in mm

SKB B... C 5000/3300

Case G 33



Dimensions in mm.

No. 3233 2500

