

SKB B...C1000L5B



Miniature Bridge Rectifiers

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Features

- Compact plastic package with in-line terminals
- High blocking voltage

Typical Applications

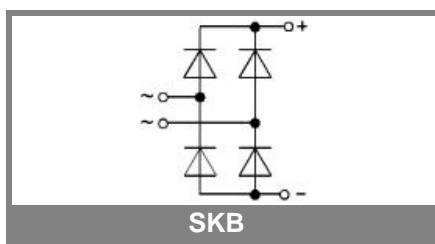
- Internal power supplies for electronic equipment
- DC power supplies
- Control equipment
- TV sets
- Recommended snubber network:
RC: 10 nF, 20...50 Ω ($P_R = 1 \text{ W}$)

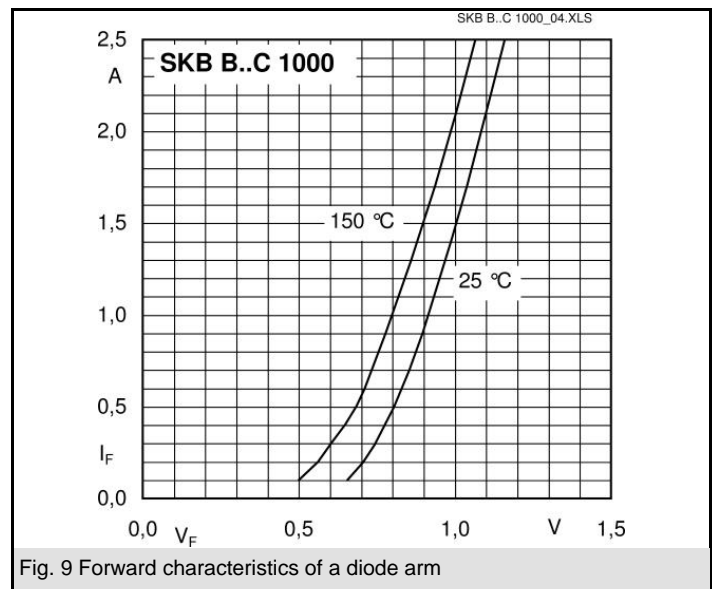
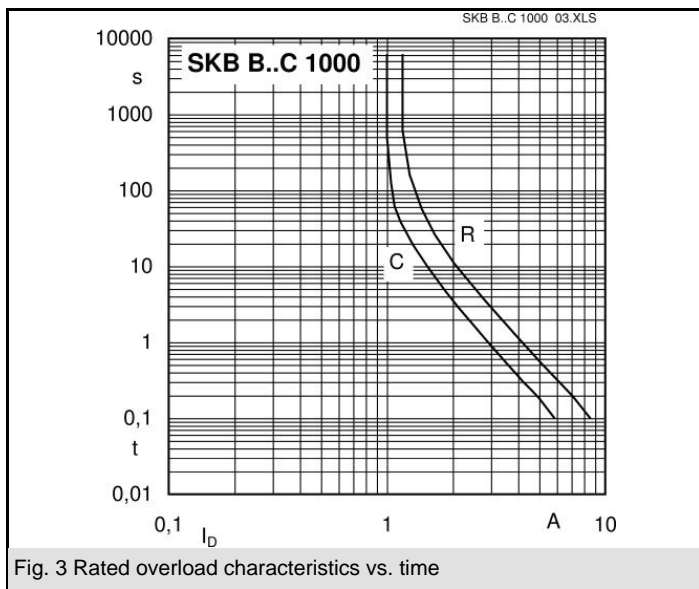
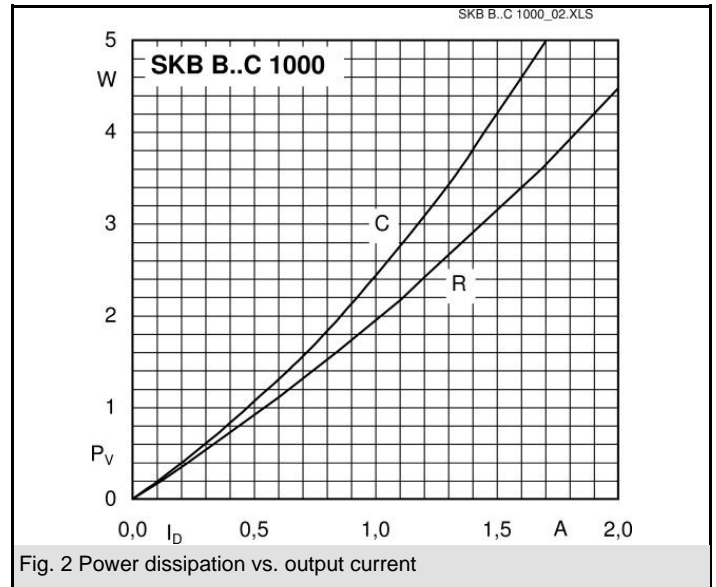
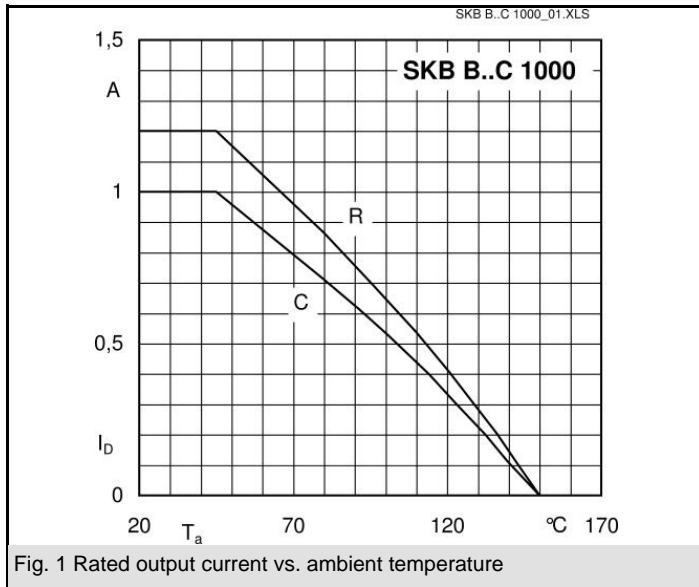
1) Freely suspended or mounted on an insulator

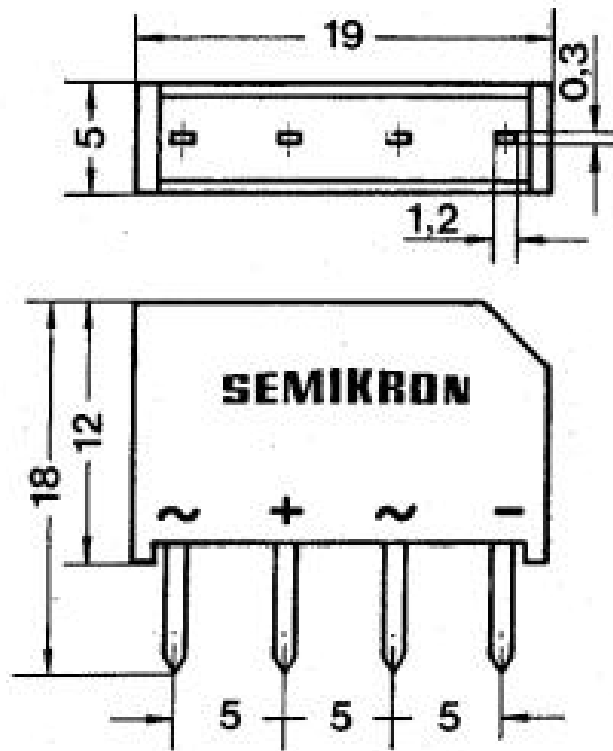
2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

V_{RSM}, V_{RRM} V	V_{VRMS} V	$I_D = 1,8 \text{ A}$ ($T_a = 45 \text{ °C}$) Types	C_{max} μF	R_{min} Ω
120	40	SKB B40C1000L5B	5000	0,5
400	125	SKB B80C1000L5B	1600	1,5
800	250	SKB B250C1000L5B	800	3
1000	380	SKB B380C1000L5B	600	4,5
1200	500	SKB B500C1000L5B	400	6

Symbol	Conditions	Values	Units
I_D	$T_a = 45 \text{ °C}$, isolated ¹⁾ $T_a = 45 \text{ °C}$, chassis ²⁾	1,2 1,8	A A
I_{DCL}	$T_a = 45 \text{ °C}$, isolated ¹⁾ $T_a = 45 \text{ °C}$, chassis ²⁾ $T_a = \text{ °C}$,	1 1,5	A A A
I_{FSM}	$T_{vj} = 25 \text{ °C}$, 10 ms $T_{vj} = 150 \text{ °C}$, 10 ms	58 50	A A
i^2t	$T_{vj} = 25 \text{ °C}$, 8,3 ... 10 ms $T_{vj} = 150 \text{ °C}$, 8,3 ... 10 ms	17 12,5	A ² s A ² s
V_F	$T_{vj} = 25 \text{ °C}$, $I_F = 10 \text{ A}$	max. 1,65	V
$V_{(TO)}$	$T_{vj} = 150 \text{ °C}$	max. 0,85	V
r_T	$T_{vj} = 150 \text{ °C}$	max. 100	mΩ
I_{RD}	$T_{vj} = 25 \text{ °C}$, $V_{RD} = V_{RRM} = 120 \text{ V}$	20	μA
I_{RD}	$T_{vj} = 25 \text{ °C}$, $V_{RD} = V_{RRM} \geq 400 \text{ V}$	5	μA
I_{RD}	$T_{vj} = 150 \text{ °C}$, $V_{RD} = V_{RRM} = 120 \text{ V}$	1	mA
I_{RD}	$T_{vj} = 150 \text{ °C}$, $V_{RD} = V_{RRM} \geq 400 \text{ V}$	0,6	mA
t_{tr}	$T_{vj} = 25 \text{ °C}$	10	μs
f_G		2000	Hz
$R_{th(j-a)}$	isolated ¹⁾ chassis ²⁾	42 27	K/W K/W
T_{vj}		- 40 ... + 150	°C
T_{stg}		- 55 ... + 150	°C
V_{isol}			V~
M_s			Nm
M_t			Nm
a			m/s ²
w		2	g
F_u		1,5	A
Case		G 2	







Case G 2

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