



## Power Bridge Rectifiers

### SKB B../.-4

#### Features

- Square plastic case with screw terminals

#### Typical Applications

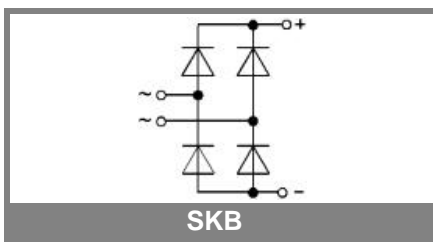
- Internal power supplies for electronic equipment
- Electronic control equipment
- DC motors
- Field rectifiers for DC motors
- Battery charger rectifiers
- Recommended snubber network:  
RC: 10 nF, 20...50 Ω ( $P_R = 1 W$ )

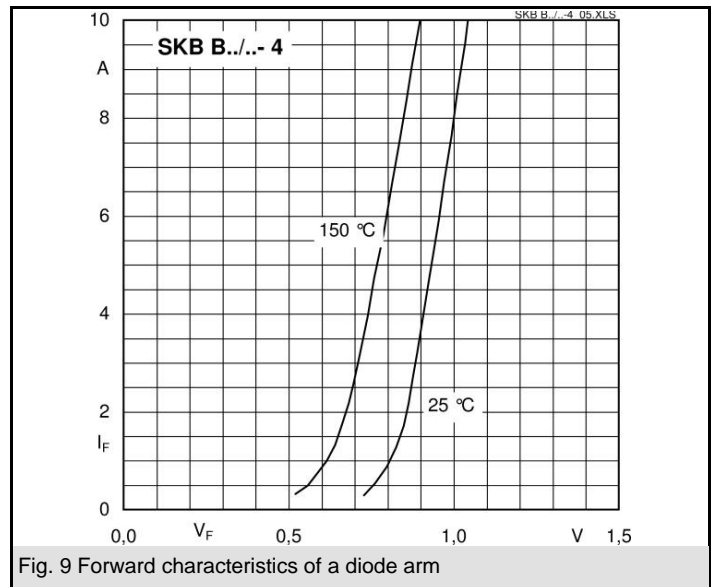
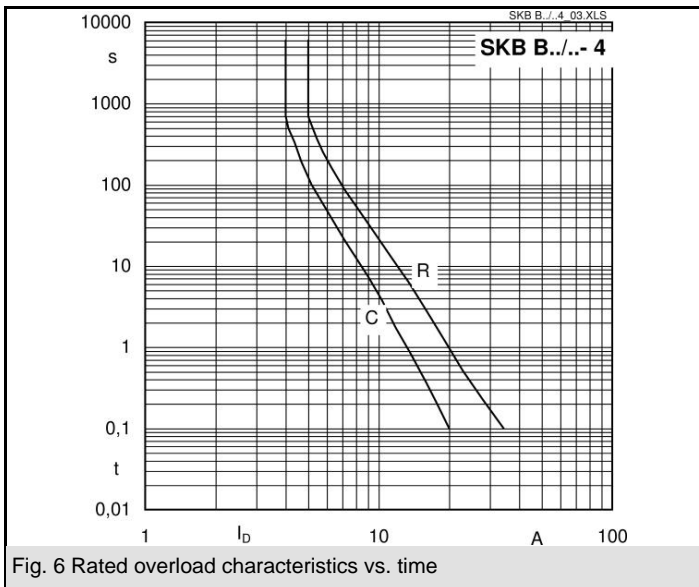
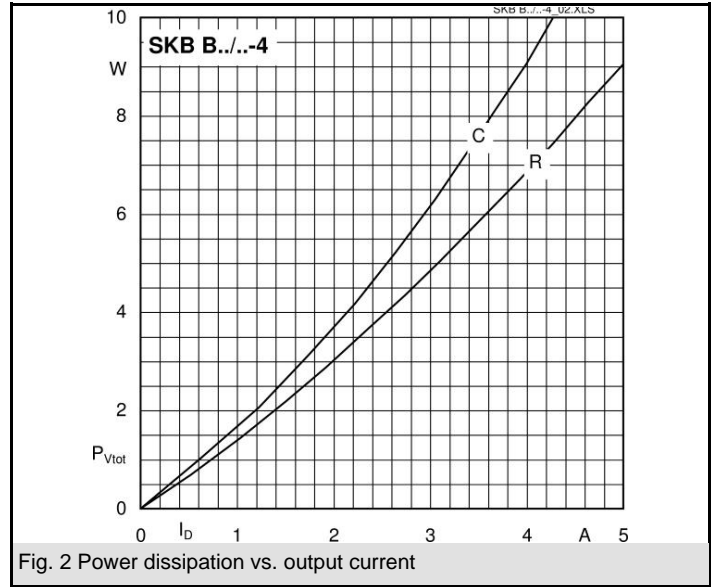
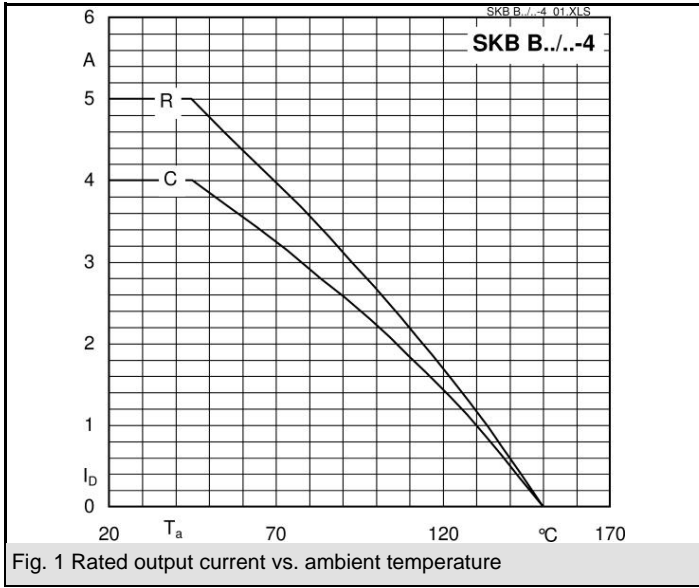
1) Freely suspended or mounted on an insulator

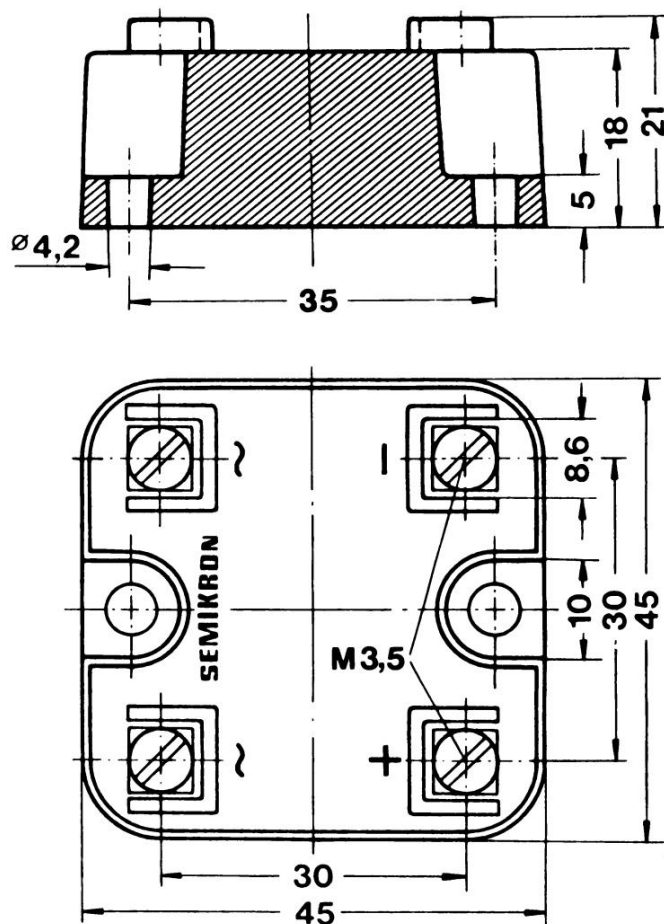
2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

$V_{RSM}, V_{RRM}$ V	$V_{VRMS}$ V	$I_D = 5 A (T_a = 45 ^\circ C)$ Types	$C_{max}$ $\mu F$	$R_{min}$ $\Omega$
400	125	SKB B80/70-4		0,5
800	250	SKB B250/220-4		1
1200	380	SKB B500/445-4		2

Symbol	Conditions	Values	Units
$I_D$	$T_a = 45 ^\circ C$ , isolated <sup>1)</sup>	5	A
	$T_a = 45 ^\circ C$ , chassis <sup>2)</sup>	5	A
$I_{DCL}$	$T_a = 45 ^\circ C$ , isolated <sup>1)</sup>	4	A
	$T_a = 45 ^\circ C$ , chassis <sup>2)</sup>	4	A
	$T_a = ^\circ C$ ,		A
$I_{FSM}$	$T_{vj} = 25 ^\circ C$ , 10 ms	180	A
	$T_{vj} = 150 ^\circ C$ , 10 ms	150	A
$i^2t$	$T_{vj} = 25 ^\circ C$ , 8,3 ... 10 ms	160	A <sup>2</sup> s
	$T_{vj} = 150 ^\circ C$ , 8,3 ... 10 ms	110	A <sup>2</sup> s
$V_F$	$T_{vj} = 25 ^\circ C$ , $I_F = 80 A$	max. 2,65	V
$V_{(TO)}$	$T_{vj} = 150 ^\circ C$	max. 0,8	V
$r_T$	$T_{vj} = 150 ^\circ C$	max. 24	mΩ
$I_{RD}$	$T_{vj} = 25 ^\circ C$ , $V_{RD} = V_{RRM}$	100	$\mu A$
	$T_{vj} = ^\circ C$ , $V_{RD} = V_{RRM} \geq V$		$\mu A$
$I_{RD}$	$T_{vj} = 150 ^\circ C$ , $V_{RD} = V_{RRM}$	0,6	mA
	$T_{vj} = ^\circ C$ , $V_{RD} = V_{RRM} \geq V$		mA
$t_{rr}$	$T_{vj} = 25 ^\circ C$	10	$\mu s$
$f_G$		2000	Hz
$R_{th(j-a)}$	isolated <sup>1)</sup>	13	K/W K/W
$T_{vj}$		- 40 ... + 150	$^\circ C$
$T_{stg}$		- 55 ... + 150	$^\circ C$
$V_{isol}$			V~
$M_s$	to heatsink	1,5 ± 15 %	Nm
$M_t$	to terminals	1 ± 15 %	Nm
$a$			m/s <sup>2</sup>
$w$		60	g
$F_u$		6	A
Case		G 8	







Case G 8

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