

SKB B../.-4



Power Bridge Rectifiers

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Features

- Square plastic case with screw terminals

Typical Applications

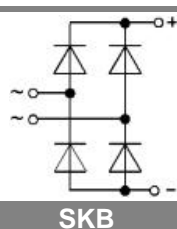
- Internal power supplies for electronic equipment
- Electronic control equipment
- DC motors
- Field rectifiers for DC motors
- Battery charger rectifiers
- Recommended snubber network:
RC: 10 nF, 20...50 Ω ($P_R = 1$ W)

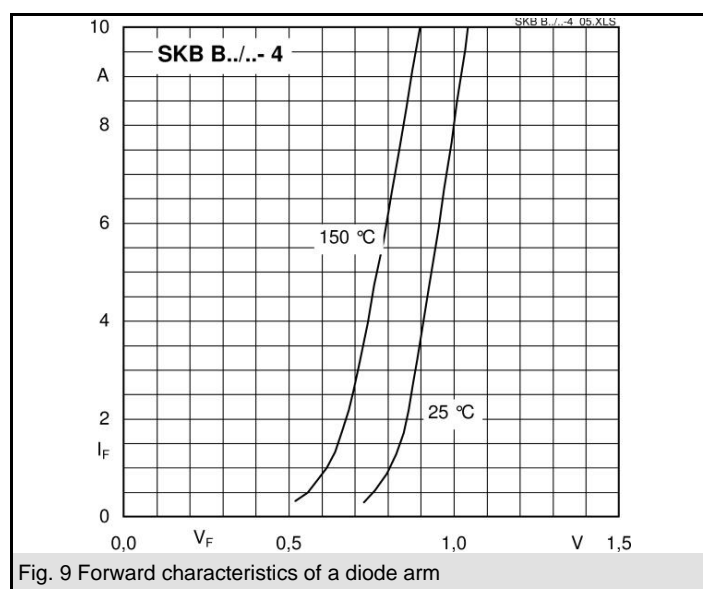
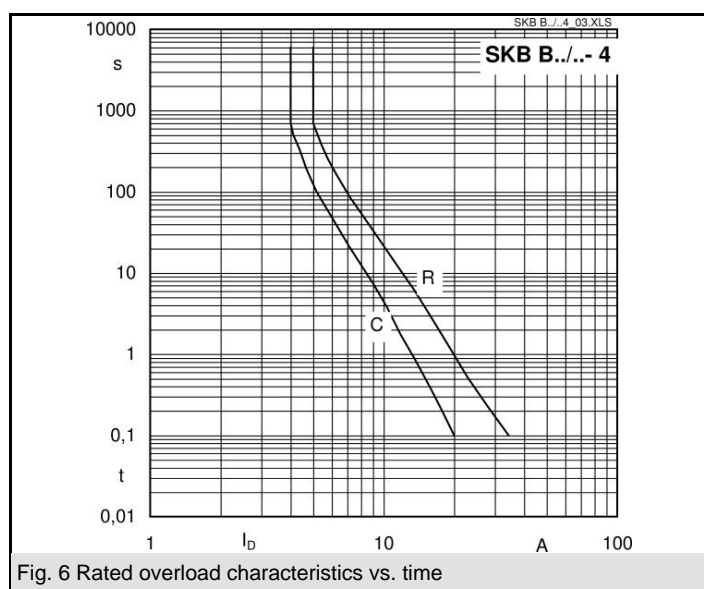
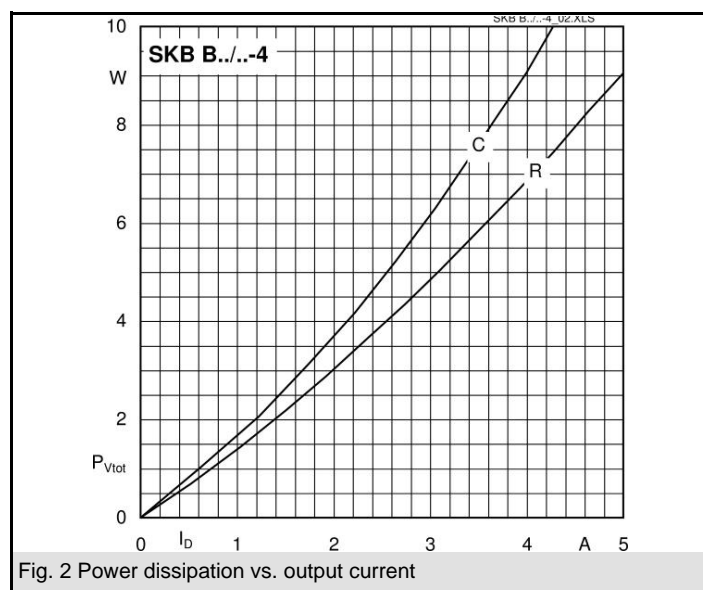
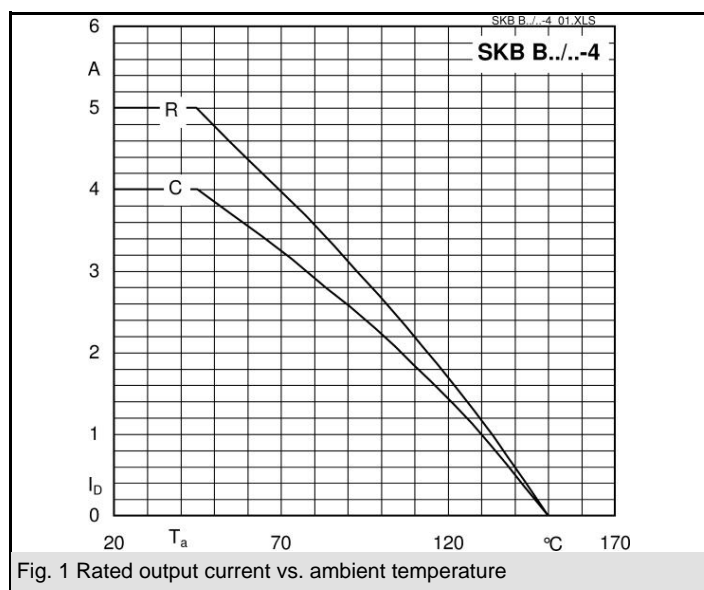
- 1) Freely suspended or mounted on an insulator
- 2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

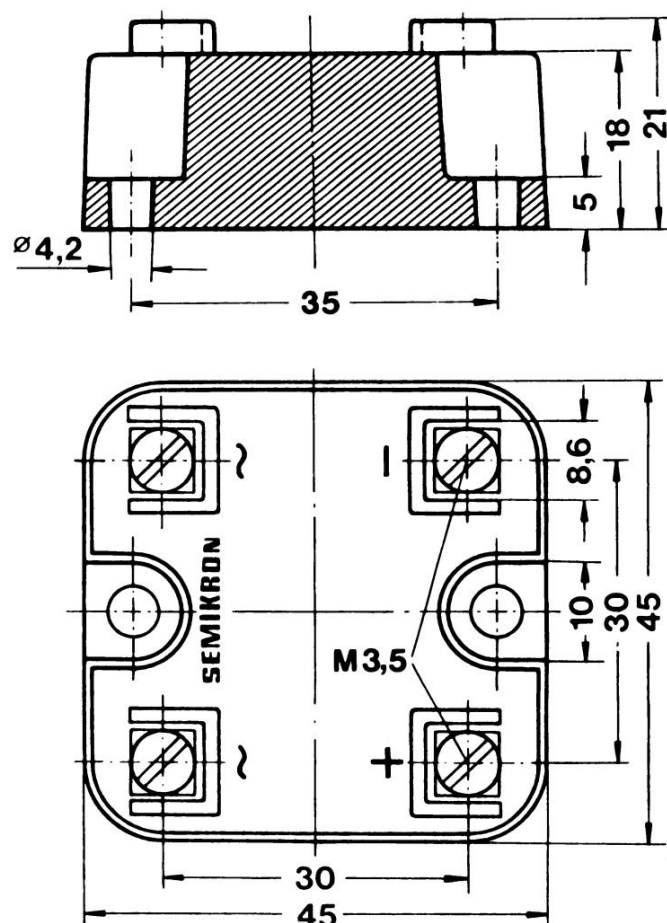
V_{RSM}, V_{RRM} V	V_{VRMS} V	$I_D = 5$ A ($T_a = 45$ °C) Types	C_{max} μ F	R_{min} Ω
400	125	SKB B80/70-4		0,5
800	250	SKB B250/220-4		1
1200	380	SKB B500/445-4		2

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

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Case G 8

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