SKBa B500/445-4

$V_{(BR)\ min}$ V	V_{VRMS} V	I_D = 5 A (T_a = 45 °C) Types	C_{max} µF	R_{min} Ω
1300	500	SKBa 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
I_{FSM}	T_{vj} = 25 °C, 10 ms	180	A
	T_{vj} = 150 °C, 10 ms	150	A
i²t	T_{vj} = 25 °C, 8,3 ... 10 ms	160	A²s
	T_{vj} = 150 °C, 8,3 ... 10 ms	110	A²s
P_{RSM}	t_p = 10 µs	3000	W
V_F	T_{vj} = 25°C, I_F = 80 A	max. 2,65	V
$V_{(TO)}$	T_{vj} = 150°C	0,8	V
r_T	T_{vj} = 150°C	24	mΩ
I_{RD}	T_{vj} = 25°C, V_{RD}=$V_{(BR)}$min	10	µA
I_{RD}	T_{vj} = 150°C, V_{RD}=$V_{(BR)}$min	0,6	mA
t_{rr}	T_{vj} = 25°C	10	µs
f_G		2000	Hz
$R_{th(j-a)}$	isolated1)	13	K/W
T_{vj}		- 40 ... + 150	°C
T_{stg}		- 55 ... + 150	°C
M_s	to heatsink	1,5 ± 15%	Nm
M_t	to terminals	1 ± 15 %	Nm
m		60	g
Fu		6	A
Case		G 8	

Avalanche Bridge Rectifiers

SKBa B500/445-4

Features

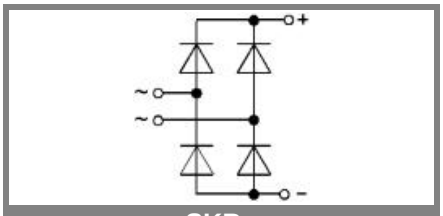
- Square plastic case with screw terminals
- High blocking voltage
- With avalanche characteristics

Typical Applications

- Internal power supplies for electronic equipment
- Electronic control equipment
- DC motors
- Field rectifiers for DC motors
- Battery charger rectifiers
- 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



SKB

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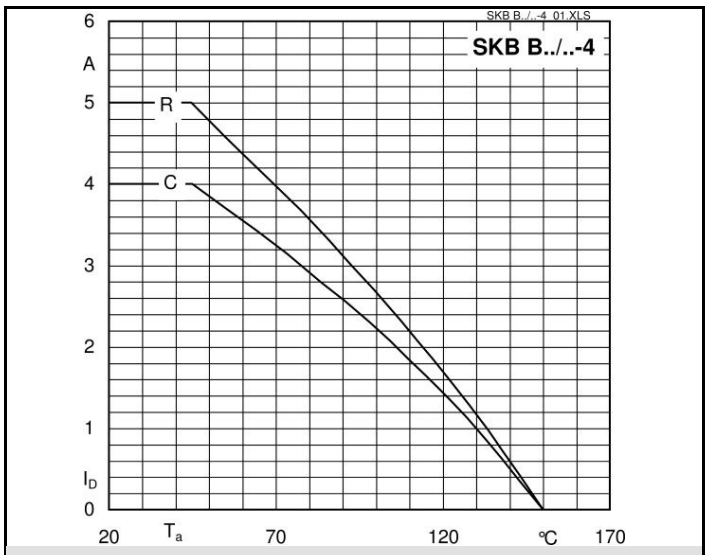

Fig. 1 Rated output current vs. ambient temperature

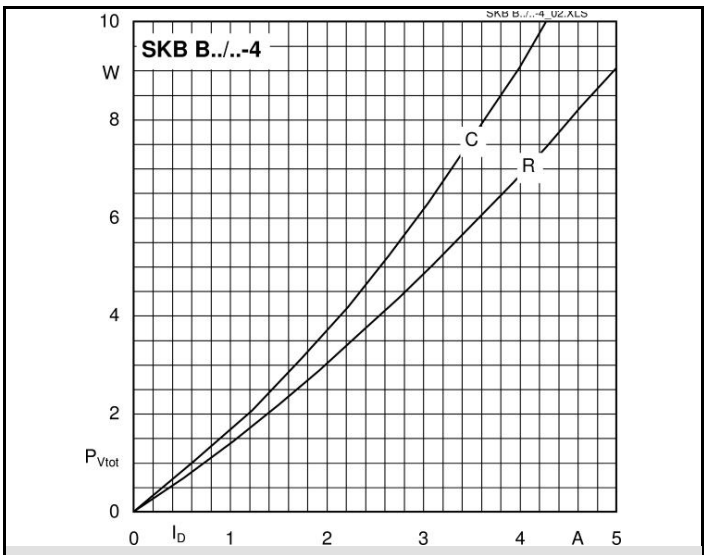

Fig. 2 Power dissipation vs. output current

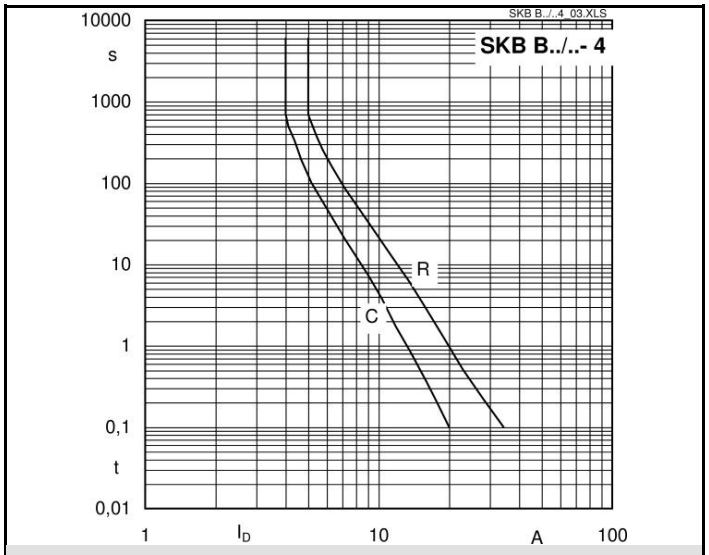

Fig. 6 Rated overload characteristics vs. time

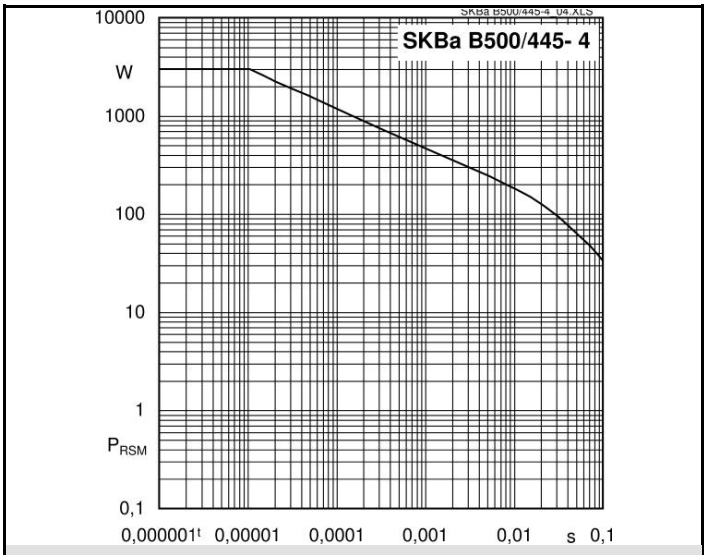

Fig. 7 Rated reverse power dissipation vs. time

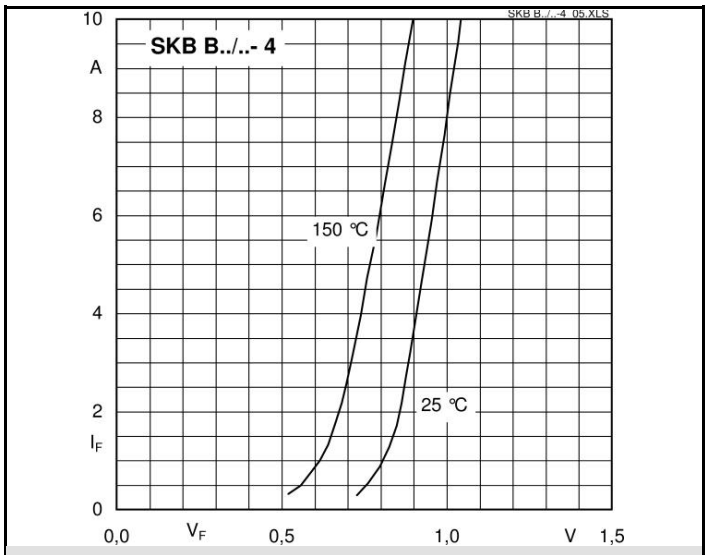

Fig. 9 Forward characteristics of a diode arm

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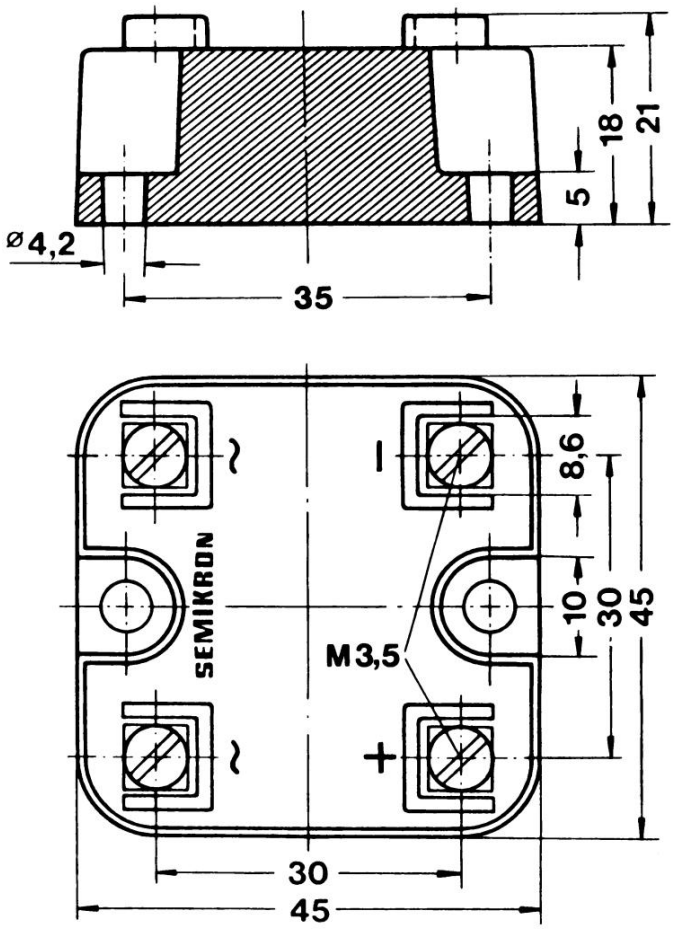
Dimensions in mm



Case G 8

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