### SKBa B500/445-4



# Avalanche Bridge Rectifiers

SKBa B500/445-4

#### **Features**

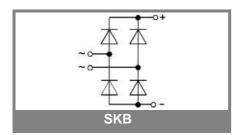
- Square plastic case with screw terminals
- · High blocking voltage
- · With avalanche characteristics

### **Typical Applications**

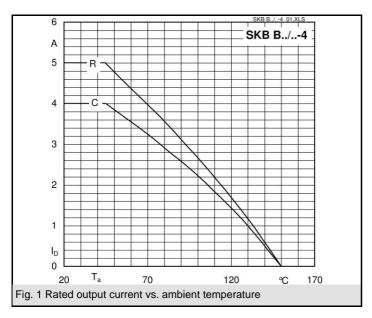
- Internal power supplies for electronic equipment
- Electronic control equipment
- DC motors
- Field rectifiers for DC motors
- · Battery charger rectifiers
- Inductive loads: Solenoids, Motor brakes
- Freely suspended or mounted on an insulator
- 2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

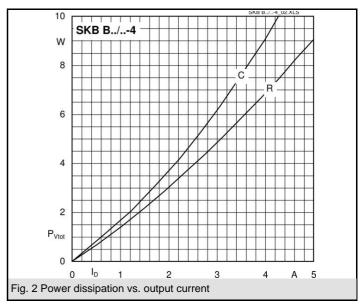
V <sub>(BR) min</sub>	V <sub>VRMS</sub>	I <sub>D</sub> = 5 A (T <sub>a</sub> = 45 °C)	C <sub>max</sub>	R <sub>min</sub>
	V	Types	µF	Ω
1300	500	SKBa B500/445-4		2

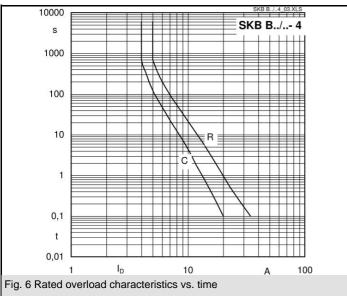
Symbol	Conditions	Values	Units
I <sub>D</sub>	T <sub>a</sub> = 45 °C, isolated <sup>1)</sup>	5	А
	$T_a = 45 ^{\circ}\text{C}$ , chassis <sup>2)</sup>	5	Α
I <sub>DCL</sub>	T <sub>a</sub> = 45 °C, isolated <sup>1)</sup>	4	Α
	T <sub>a</sub> = 45 °C, chassis <sup>2)</sup>	4	Α
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C, 10 ms	180	Α
	T <sub>vi</sub> = 150 °C, 10 ms	150	Α
i²t	T <sub>vi</sub> = 25 °C, 8,3 10 ms	160	A²s
	T <sub>vj</sub> = 150 °C, 8,3 10 ms	110	A²s
$P_{RSM}$	t <sub>p</sub> = 10 μs	3000	W
V <sub>F</sub>	T <sub>vi</sub> = 25°C, I <sub>F</sub> = 80 A	max. 2,65	V
V <sub>(TO)</sub>	T <sub>vi</sub> = 150°C	0,8	V
r <sub>T</sub>	T <sub>vi</sub> = 150°C	24	mΩ
I <sub>RD</sub>	$T_{vi}^{5}$ = 25°C, $V_{RD} = V_{(BR)}$ min	10	μA
$I_{RD}$	$T_{vj} = 150$ °C, $V_{RD} = V_{(BR)}$ min	0,6	mA
t <sub>rr</sub>	$T_{vj} = 25^{\circ}C$	10	μs
$f_G$		2000	Hz
R <sub>th(j-a)</sub>	isolated <sup>1)</sup>	13	K/W
T <sub>vj</sub>		- 40 <b>+</b> 150	°C
T <sub>stg</sub>		- 55 <b>+</b> 150	°C
M <sub>s</sub>	to heatsink	1,5 ± 15%	Nm
Mt	to terminals	1 ± 15 %	Nm
m		60	g
Fu		6	А
Case		G 8	

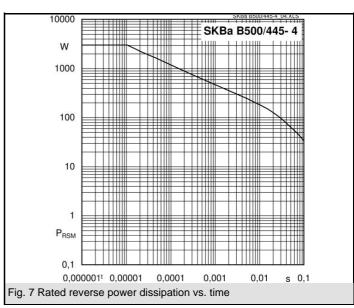


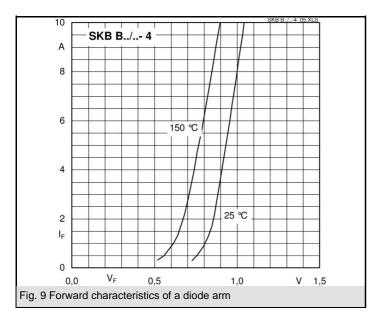
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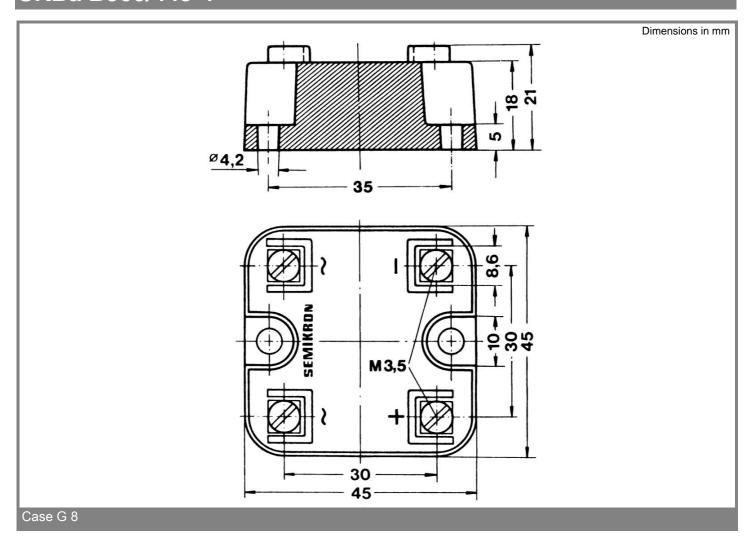








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