SKBa B500/445-4



Avalanche Bridge Rectifiers

SKBa B500/445-4

Features

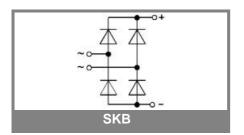
- Square plastic case with screw terminals
- · High blocking voltage
- · With avalanche characteristics

Typical Applications

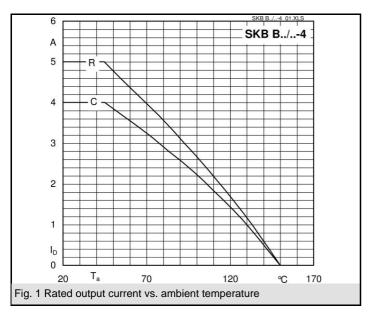
- Internal power supplies for electronic equipment
- Electronic control equipment
- DC motors
- Field rectifiers for DC motors
- · Battery charger rectifiers
- Inductive loads: Solenoids, Motor brakes
- Freely suspended or mounted on an insulator
- 2) Mounted on a painted metal sheet of min. 250 x 250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

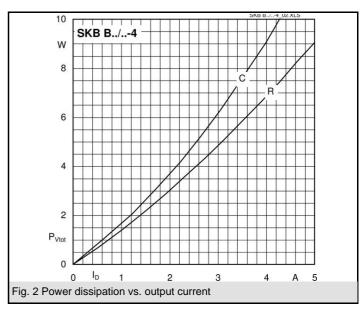
V _{(BR) min}	V _{VRMS}	I _D = 5 A (T _a = 45 °C)	C _{max}	R _{min}
	V	Types	µF	Ω
1300	500	SKBa B500/445-4		2

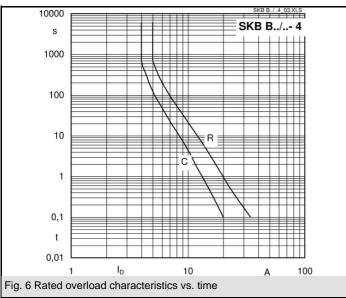
Symbol	Conditions	Values	Units
I _D	T _a = 45 °C, isolated ¹⁾	5	Α
	T _a = 45 °C, chassis ²⁾	5	Α
I _{DCL}	T _a = 45 °C, isolated ¹⁾	4	Α
	T _a = 45 °C, chassis ²⁾	4	Α
I _{FSM}	T _{vi} = 25 °C, 10 ms	180	Α
	T _{vi} = 150 °C, 10 ms	150	Α
i²t	T _{vi} = 25 °C, 8,3 10 ms	160	A²s
	T _{vi} = 150 °C, 8,3 10 ms	110	A²s
P _{RSM}	t _p = 10 μs	3000	W
V_{F}	T _{vi} = 25°C, I _F = 80 A	max. 2,65	V
V _(TO)	T _{vi} = 150°C	0,8	V
r _T	T _{vi} = 150°C	24	mΩ
I_{RD}	$T_{vi} = 25$ °C, $V_{RD} = V_{(BR)}$ min	10	μA
I_{RD}	$T_{vj} = 150$ °C, $V_{RD} = V_{(BR)}$ min	0,6	mA
t _{rr}	$T_{vj} = 25^{\circ}C$	10	μs
f_G		2000	Hz
R _{th(j-a)}	isolated ¹⁾	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	А
Case		G 8	

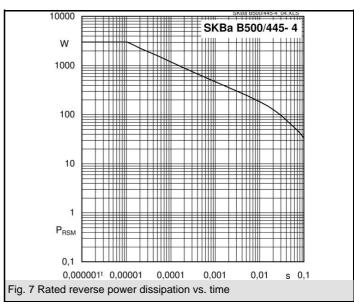


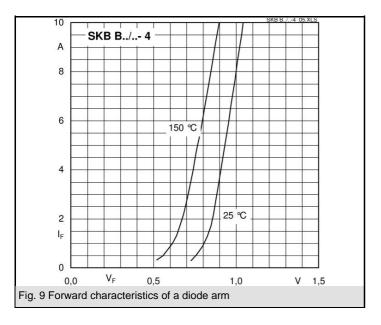
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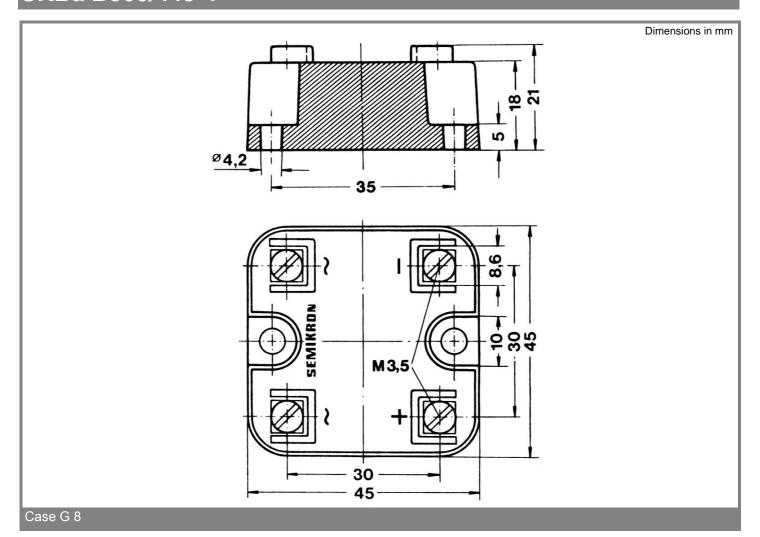








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^{*} The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON.

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