

# SKBa B500C1500



## Avalanche Bridge Rectifiers

### SKBa B500C1500

#### Features

- Compact plastic package with in-line terminals
- High blocking voltage
- With avalanche characteristics

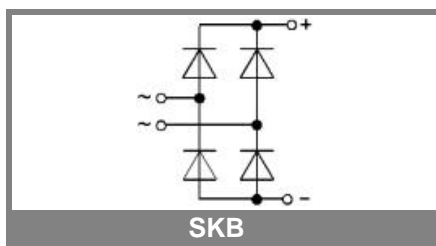
#### Typical Applications

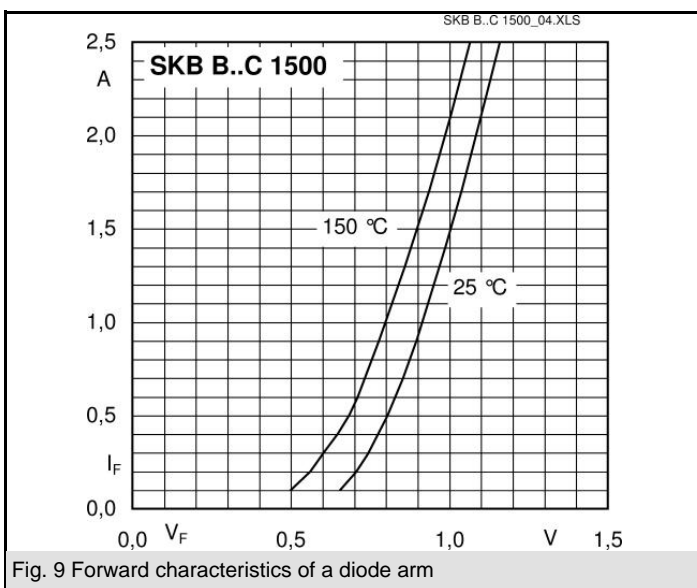
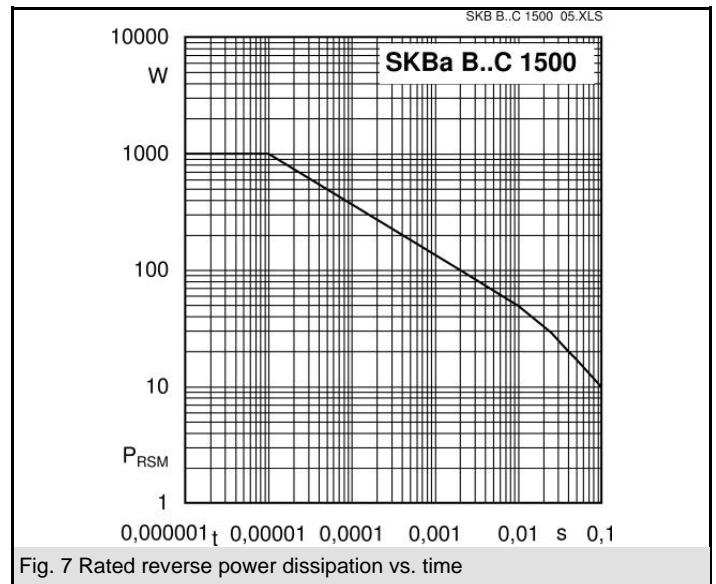
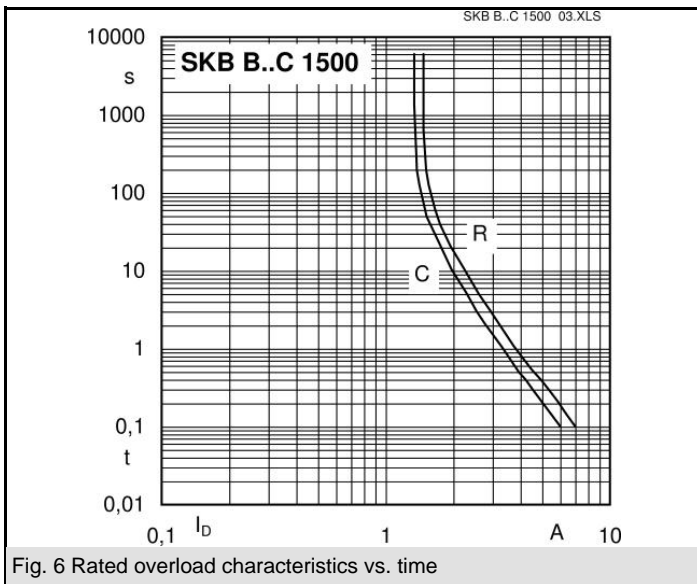
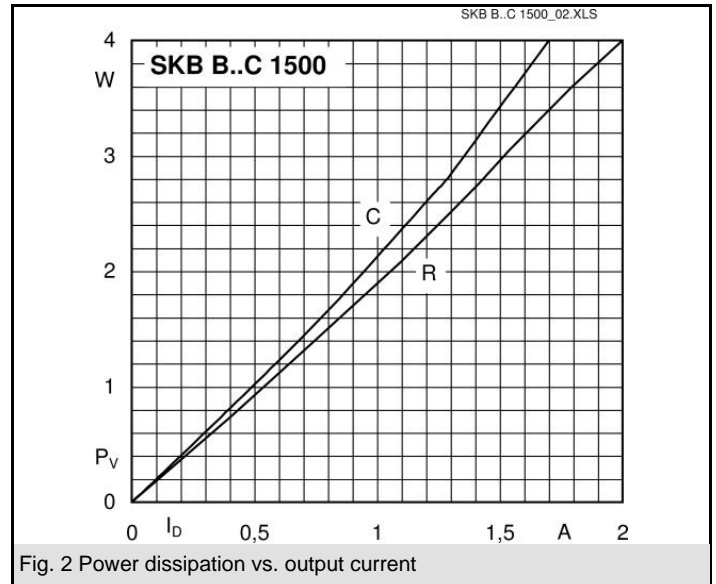
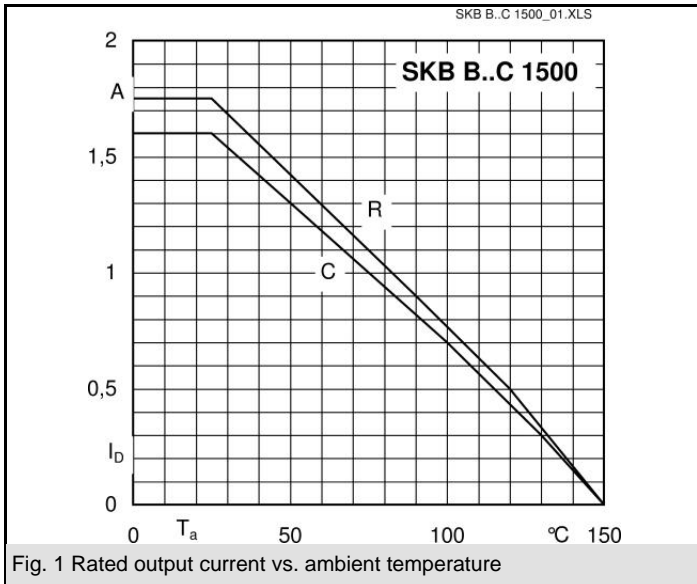
- Internal power supplies for electronic equipment
- DC power supplies
- Control equipment
- TV sets
- Inductive loads: Solenoids, Motor brakes

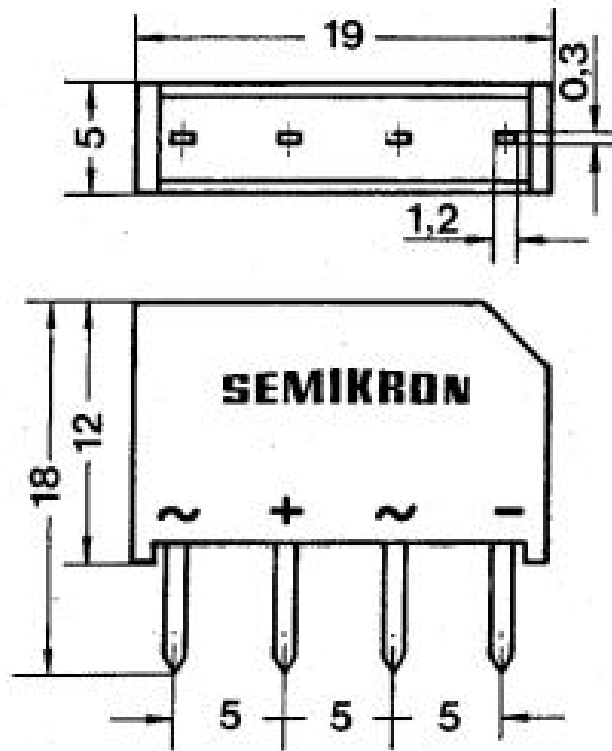
- 1) Freely suspended or mounted on an insulator
- 2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

$V_{(BR) \min}$ V	$V_{VRMS}$ V	$I_D = 1,8 \text{ A}$ ( $T_a = 45 \text{ }^\circ\text{C}$ ) Types	$C_{\max}$ $\mu\text{F}$	$R_{\min}$ $\Omega$
1300	500	SKBa B500C1500	500	5

Symbol	Conditions	Values	Units
$I_D$	$T_a = 45 \text{ }^\circ\text{C}$ , isolated <sup>1)</sup>	1,5	A
$I_{DCL}$	$T_a = 33 \text{ }^\circ\text{C}$ , isolated <sup>1)</sup>	1,5	A
$I_{FSM}$	$T_{vj} = 25 \text{ }^\circ\text{C}$ , 10 ms	80	A
	$T_{vj} = 150 \text{ }^\circ\text{C}$ , 10 ms	70	A
$i^2t$	$T_{vj} = 25 \text{ }^\circ\text{C}$ , 8,3 ... 10 ms	32	A <sup>2</sup> s
	$T_{vj} = 150 \text{ }^\circ\text{C}$ , 8,3 ... 10 ms	24,5	A <sup>2</sup> s
$P_{RSM}$	$t_p = 10 \mu\text{s}$	1000	W
$V_F$	$T_{vj} = 25 \text{ }^\circ\text{C}$ , $I_F = 10 \text{ A}$	max. 1,5	V
$V_{(TO)}$	$T_{vj} = 150 \text{ }^\circ\text{C}$	0,85	V
$r_T$	$T_{vj} = 150 \text{ }^\circ\text{C}$	60	m $\Omega$
$I_{RD}$	$T_{vj} = 25 \text{ }^\circ\text{C}$ , $V_{RD} = V_{(BR) \min}$	5	$\mu\text{A}$
$I_{RD}$	$T_{vj} = 150 \text{ }^\circ\text{C}$ , $V_{RD} = V_{(BR) \min}$	0,6	mA
$t_{rr}$	$T_{vj} = 25 \text{ }^\circ\text{C}$	10	$\mu\text{s}$
$f_G$		2000	Hz
$R_{th(j-a)}$	isolated <sup>1)</sup>	36	K/W
$T_{vj}$		- 40 ... + 150	$^\circ\text{C}$
$T_{stg}$		- 55 ... + 150	$^\circ\text{C}$
m		2	g
Fu		2	A
Case		G 2	







Case G 2

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