### MSKa B500/445-1,5



# Avalanche Bridge Rectifiers

#### MSKa B500/445-1,5

#### **Features**

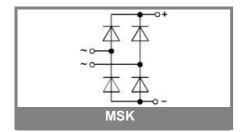
- Plastic case with screw terminals
- · High blocking voltage
- · With avalanche characteristics

### **Typical Applications**

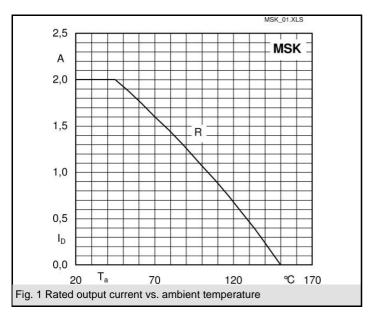
- Internal power supplies for eletronic equipment
- DC power supplies
- Control equipment
- Inductive loads: Solenoids, Motor brakes
- 1) Freely suspended or mounted on an insulator
- 2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

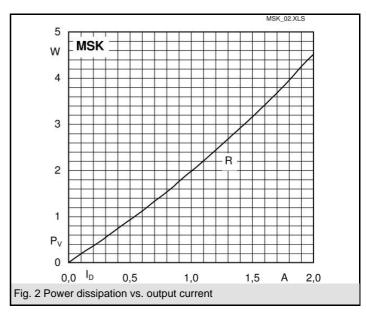
V <sub>(BR) min</sub>	V <sub>VRMS</sub> V	I <sub>D</sub> = 2 A (T <sub>a</sub> = 45 °C) Types	C <sub>max</sub> μF	R <sub>min</sub> Ω
1300	500	MSKa B500/445-1,5		
1700	660	MSKa B660/585-1,5		

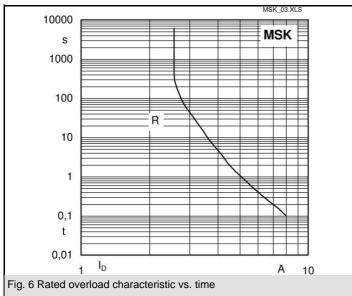
Symbol	Conditions	Values	Units
I <sub>D</sub>	T <sub>a</sub> = 45 °C, isolated <sup>1)</sup>	2	Α
	$T_a = 45  ^{\circ}\text{C}$ , chassis $^{2)}$	2	Α
I <sub>FSM</sub>	T <sub>vj</sub> = 25 °C, 10 ms	58	Α
	$T_{vi} = 150 ^{\circ}\text{C}, 10 \text{ms}$	50	Α
i²t	T <sub>vi</sub> = 25 °C, 8,3 10 ms	17	A²s
	T <sub>vj</sub> = 150 °C, 8,3 10 ms	12,5	A²s
$P_{RSM}$	t <sub>p</sub> = 10 μs	1000	W
V <sub>F</sub>	T <sub>vi</sub> = 25°C, I <sub>F</sub> = 10 A	max. 1,65	V
$V_{(TO)}$	$T_{vi} = 150^{\circ}C$	0,85	V
r <sub>T</sub>	$T_{vi} = 150^{\circ}C$	100	mΩ
$I_{RD}$	$T_{vj} = 25$ °C, $V_{RD} = V_{(BR)}$ min	5	μΑ
$I_{RD}$	$T_{vj} = 150$ °C, $V_{RD} = V_{(BR)}$ min	0,6	mA
t <sub>rr</sub>	$T_{vj} = 25^{\circ}C$		μs
$f_G$		2000	Hz
R <sub>th(j-a)</sub>		23	K/W
T <sub>vj</sub>		- 40 <b>+</b> 150	°C
T <sub>stg</sub>		- 55 <b>+</b> 150	°C
m		25	g
Fu		2	Α
Case		G 7	

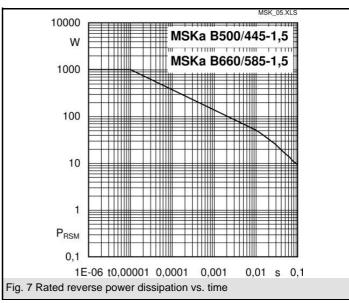


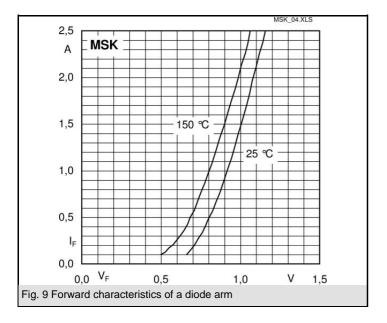
### MSKa B500/445-1,5



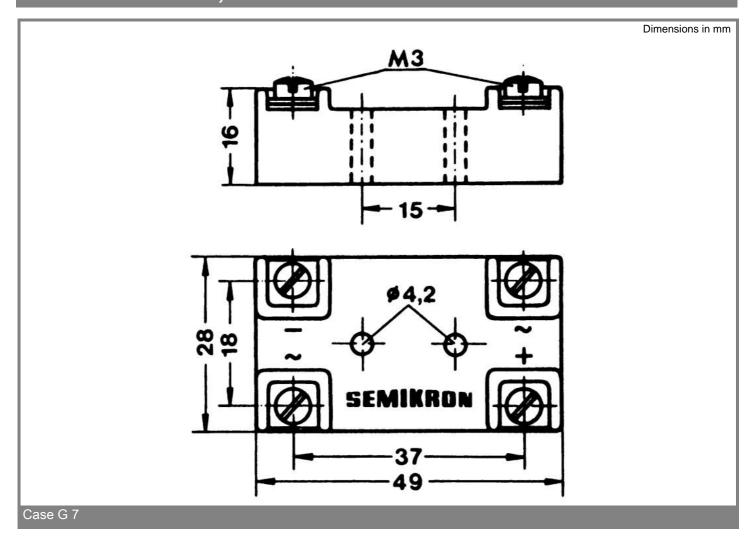








## MSKa B500/445-1,5



This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.

3 23-09-2005 SCT © by SEMIKRON