# **SKB 15**



**Power Bridge Rectifiers** 

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#### Features

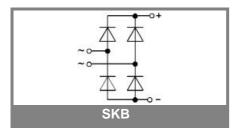
- Square plastic case with screw terminals
- Blocking voltage up to 1600 V
- Metal baseplate for improved heat transfer

### **Typical Applications\***

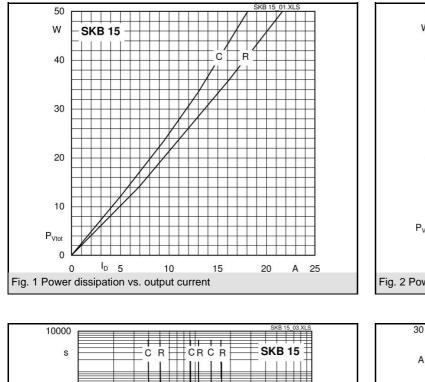
- Internal power supplies for electronic equipment
- Electronic control equipment
- DC motors
- Field rectifiers for DC motors
- Battery charger rectifiers
- Recommended snubber network: RC: 100 nF, 20...50  $\Omega$  (P <sub>R</sub> = 1 W)
- 1) Freely suspended or mounted on an insulator
- Mounted on apainted metal sheet of min.
  250 x 250 x 1 mm

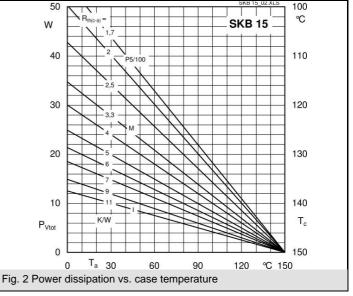
V <sub>RSM</sub> , V <sub>RRM</sub>	V <sub>VRMS</sub>	I <sub>D</sub> = 15 A (T <sub>c</sub> = 117 °C)	C <sub>max</sub>	R <sub>min</sub>
V	V	Types	μF	Ω
200	60	SKB 15/02 A2		0,15
400	125	SKB 15/04 A2		0,3
800	250	SKB 15/08 A2		0,5
1200	380	SKB 15/12 A2		0,75
1400	440	SKB 15/14 A2		0,9
1600	500	SKB 15/16 A2		1

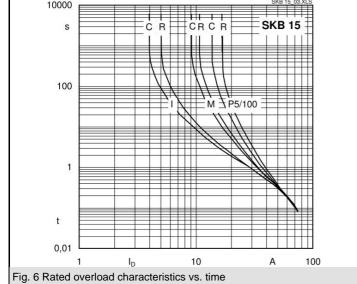
Symbol	Conditions	Values	Units
I <sub>D</sub>	T <sub>a</sub> = 45 °C, isolated <sup>1)</sup>	5	А
5	$T_a = 45 \text{ °C}, \text{ chassis}^{2)}$	11	А
I <sub>DCL</sub>	$T_a = 45 \text{ °C}, \text{ isolated}^{1)}$	4	А
	T <sub>a</sub> = 45 °C, chassis <sup>2)</sup>	9	А
	T <sub>a</sub> = 45 °C, P5A/100	14	А
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C, 10 ms	370	A
	T <sub>vi</sub> = 150 °C, 10 ms	320	А
i²t	T <sub>vj</sub> = 25 °C, 8,3 10 ms	680	A²s
	T <sub>vj</sub> = 150 °C, 8,3 10 ms	500	A²s
V <sub>F</sub>	T <sub>vi</sub> = 25°C, I <sub>F</sub> = 150 A	max. 2,2	V
V <sub>(TO)</sub>	$T_{vj} = 150^{\circ}C$	max. 0,85	V
r <sub>T</sub>	$T_{vj} = 150^{\circ}C$	max. 12	mΩ
I <sub>RD</sub>	$T_{vj}^{3} = 25^{\circ}C, V_{RD} = V_{RRM}$	300	μΑ
	$T_{vj} = C, V_{RD} = V_{RRM} \ge V$		μΑ
I <sub>RD</sub>	$T_{vj} = 150^{\circ}C, V_{RD} = V_{RRM}$	5	mA
	$T_{vj} = °C, V_{RD} = V_{RRM} \ge V$		mA
t <sub>rr</sub>	$T_{vj} = 25^{\circ}C$	10	μs
f <sub>G</sub>		2000	Hz
R <sub>th(j-a)</sub>	isolated <sup>1)</sup>	12	K/W
0,	chassis <sup>2)</sup>	4,3	K/W
R <sub>th(j-c)</sub>	total	1	K/W
R <sub>th(c-s)</sub>	total	0,3	K/W
T <sub>vi</sub>		- 40 + 150	°C
T <sub>stg</sub>		- 55 + 150	°C
V <sub>isol</sub>	a.c. 50 60 Hz; r.m.s.; 1 s / 1 min.	3000/2500	٧~
M <sub>s</sub>	to heatsink	1,5 ± 15 %	Nm
Mt	to terminals	1 ± 15 %	Nm
a			m/s²
w		65	g
Fu		20	А
Case		G 9	

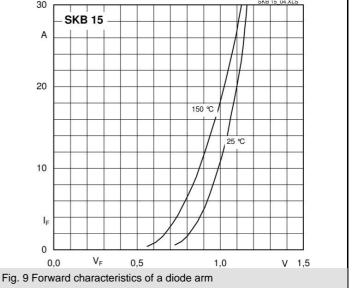


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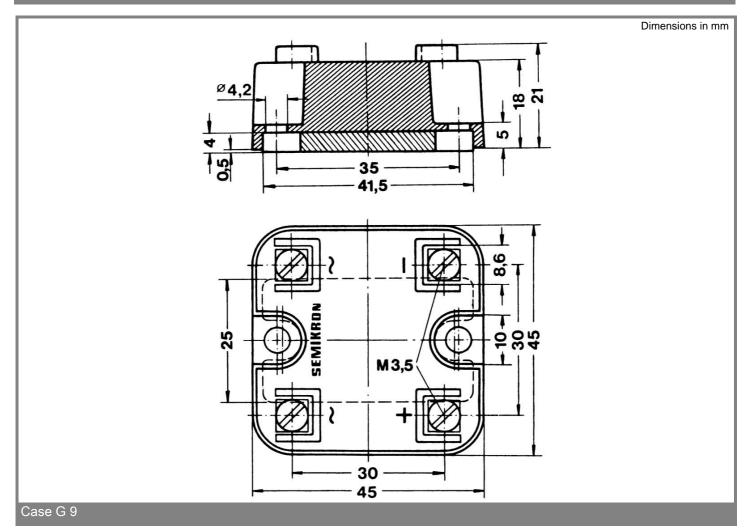








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\* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances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