

## Power Bridge Rectifiers

## **SKB 15**

## **Features**

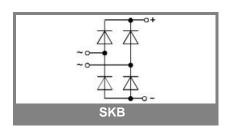
- Square plastic case with screw terminals
- Blocking voltage up to 1600 V
- Metal baseplate for improved heat transfer

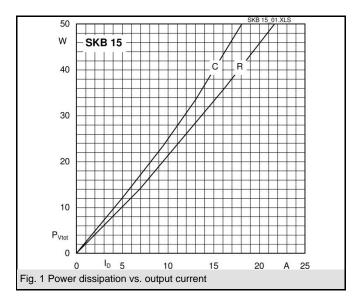
## **Typical Applications**

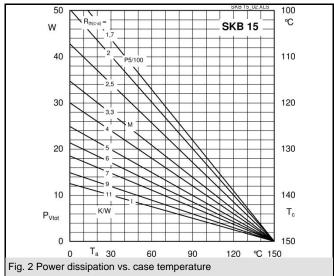
- Internal power supplies for electronic equipment
- Electronic control equipment
- DC motors
- · Field rectifiers for DC motors
- Battery charger rectifiers
- Recommended snubber network: RC: 100 nF, 20...50  $\Omega$  (P  $_{\rm R}$  = 1 W)
- Freely suspended or mounted on an insulator
- 2) Mounted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

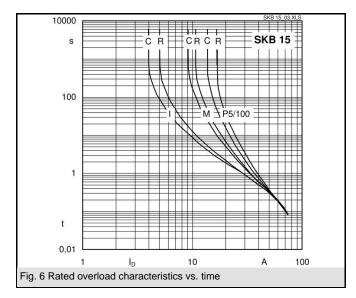
V <sub>RSM</sub> , V <sub>RRM</sub>	$V_{VRMS}$	I <sub>D</sub> = 15 A (T <sub>c</sub> = 117 °C)	C <sub>max</sub>	R <sub>min</sub>
V	V	Types	μF	Ω
200	60	SKB 15/02 A2		0,15
400	125	SKB 15/04 A2		0,3
800	250	SKB 15/08 A2		0,5
1200	380	SKB 15/12 A2		0,75
1400	440	SKB 15/14 A2		0,9
1600	500	SKB 15/16 A2		1

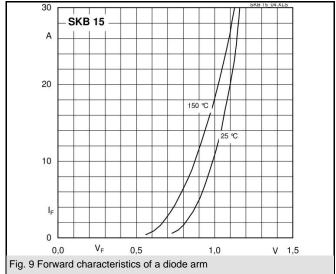
Symbol	Conditions	Values	Units
I <sub>D</sub>	T <sub>a</sub> = 45 °C, isolated <sup>1)</sup>	5	Α
	T <sub>a</sub> = 45 °C, chassis <sup>2)</sup>	11	Α
I <sub>DCL</sub>	T <sub>a</sub> = 45 °C, isolated <sup>1)</sup>	4	Α
	$T_a = 45  ^{\circ}\text{C}, \text{ chassis}^{2)}$	9	Α
	T <sub>a</sub> = 45 °C, P5A/100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

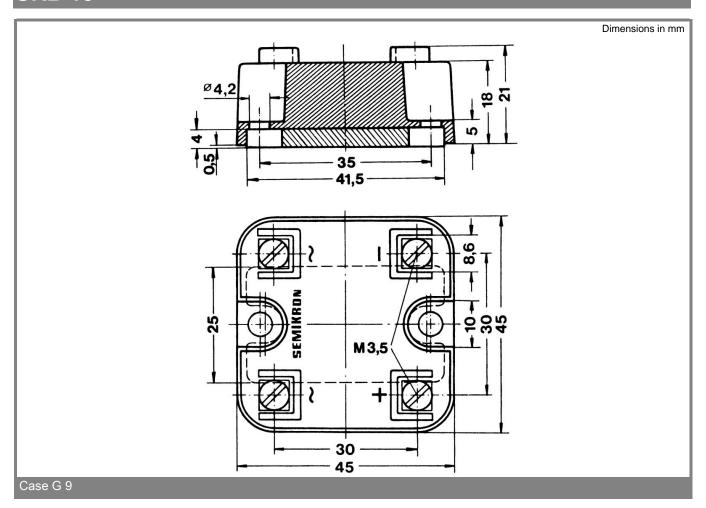












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