# **SKB 50**



**Power Bridge Rectifiers** 

#### **SKB 50**

### Features

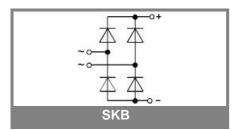
- Isolated metal case with screw terminals
- Blocking voltage to 1600 V
- High surge current
- Easy chassis mounting

### **Typical Applications**

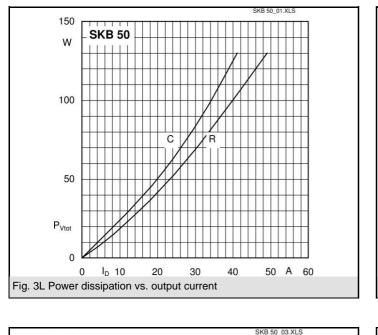
- Single phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- Battery charger rectifiers
- Recommended snubber network: RC: 0.1  $\mu$ F, 50  $\Omega$  (P <sub>R</sub> = 1 W)
- 1) Freely suspended or mounted on an insulator
- Mounted on a painted metal sheet of min.
  250 x 250 x 1 mm

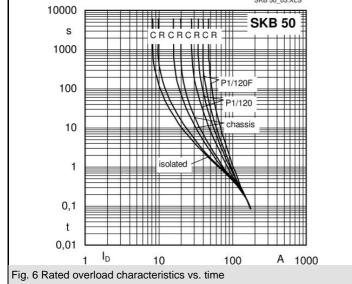
V <sub>RSM</sub> , V <sub>RRM</sub>	V <sub>VRMS</sub>	I <sub>D</sub> = 50 A (T <sub>c</sub> = 64 °C)	C <sub>max</sub>	R <sub>min</sub>
V	V	Types	μF	Ω
200	60	SKB 50/02 A3		0,1
400	125	SKB 50/04 A3		0,3
800	250	SKB 50/08 A3		0,4
1200	380	SKB 50/12 A3		0,6
1400	440	SKB 50/14 A3		0,7
1600	500	SKB 50/16 A3		0,8

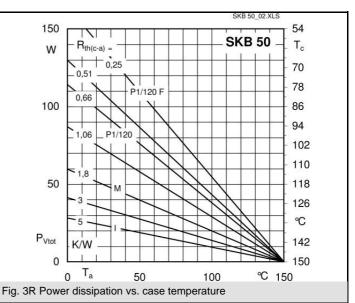
Symbol	Conditions	Values	Units
I <sub>D</sub>	$T_a = 45 \text{ °C}, \text{ isolated}^{1)}$	10	А
	$T_a = 45 \text{ °C}, \text{ chassis}^{2)}$	20	А
I <sub>DCL</sub>	$T_a = 45 \text{ °C}, \text{ isolated}^{1)}$	8	А
	T <sub>a</sub> = 45 °C, chassis <sup>2)</sup>	16	А
	T <sub>a</sub> = 35 °C, P1A/120 F	40	А
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C, 10 ms	750	А
	T <sub>vi</sub> = 150 °C, 10 ms	600	А
i²t	T <sub>vi</sub> = 25 °C, 8,3 10 ms	2800	A²s
	T <sub>vj</sub> = 150 °C, 8,3 10 ms	1800	A²s
V <sub>F</sub>	T <sub>vi</sub> = 25°C, I <sub>F</sub> = 150 A	max. 1,6	V
V <sub>(TO)</sub>	$T_{vi} = 150^{\circ}C$	0,85	V
r <sub>T</sub>	$T_{vi} = 150^{\circ}C$	8	mΩ
I <sub>RD</sub>	$T_{vi} = 25^{\circ}C, V_{RD} = V_{RRM}$	1000	μA
I <sub>RD</sub>	$T_{vj} = 150^{\circ}C, V_{RD} = V_{RRM}$	10	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>	5,7	K/W
	chassis <sup>2)</sup>	2,5	K/W
R <sub>th(j-c)</sub>	total	0,65	K/W
R <sub>th(c-s)</sub>	total	0,06	K/W
T <sub>vj</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	5 ± 15 %	Nm
Mt	to terminals	3 ± 15 %	Nm
m		250	g
Fu		50	А
Case		G 14	

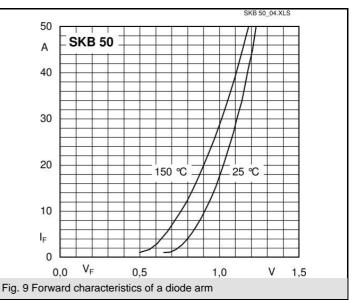


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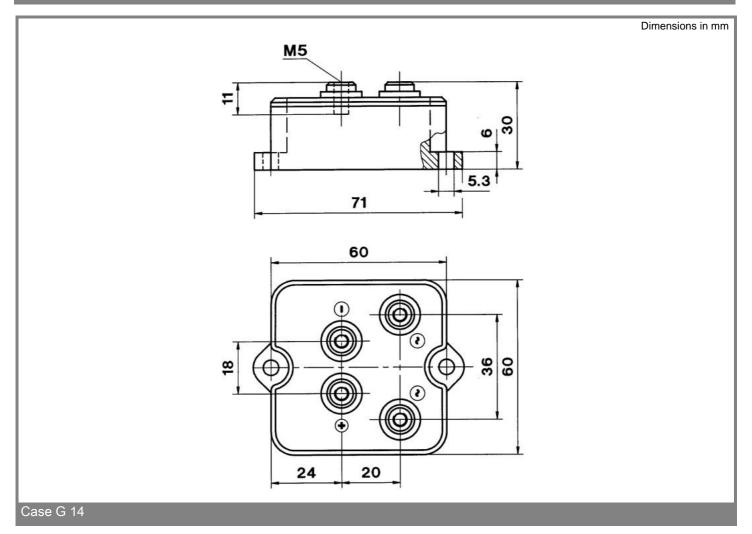








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