

$V_{RSM}, V_{RRM}$	$V_{VRMS}$	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
1600	500	SKB 50/16 A3		Ī

## Power Bridge Rectifiers

## **SKB 50**

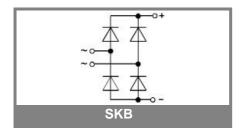
## **Features**

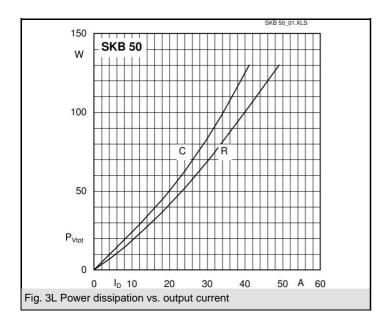
- Isolated metal case with screw terminals
- Blocking voltage to 1600 V
- High surge current
- · Easy chassis mounting

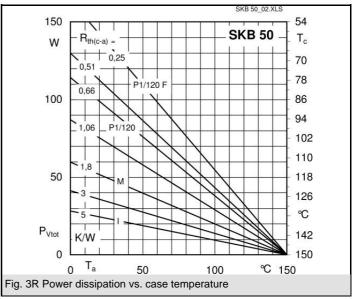
## **Typical Applications**

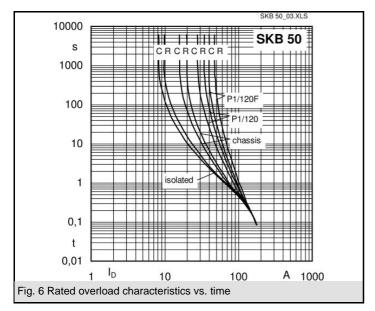
- Single phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- Battery charger rectifiers
- Recommended snubber network: RC: 0.1  $\mu$ F, 50  $\Omega$  (P  $_{R}$  = 1 W)
- 1) Freely suspended or mounted on an insulator
- 2) Mounted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

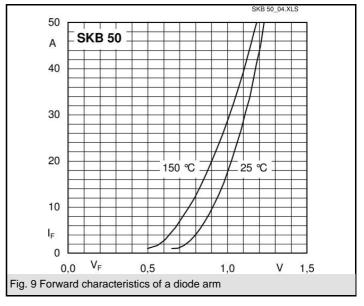
Symbol	Conditions	Values	Units
I <sub>D</sub>	T <sub>a</sub> = 45 °C, isolated <sup>1)</sup>	10	Α
_	T <sub>a</sub> = 45 °C, chassis <sup>2)</sup>	20	Α
I <sub>DCL</sub>	T <sub>a</sub> = 45 °C, isolated <sup>1)</sup>	8	Α
	T <sub>a</sub> = 45 °C, chassis <sup>2)</sup>	16	Α
	T <sub>a</sub> = 35 °C, P1A/120 F	40	А
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C, 10 ms	750	Α
	T <sub>vi</sub> = 150 °C, 10 ms	600	Α
i²t	T <sub>vj</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
$V_{(TO)}$	T <sub>vi</sub> = 150°C	max. 0,85	V
r <sub>T</sub>	T <sub>vi</sub> = 150°C	max. 8	mΩ
$I_{RD}$	$T_{vj}^{3} = 25^{\circ}C, V_{RD} = V_{RRM}$	1000	μΑ
	$T_{vi} = {^{\circ}C}, V_{RD} = V_{RRM} \ge V$		μA
$I_{RD}$	$T_{vj} = 150$ °C, $V_{RD} = V_{RRM}$	10	mA
	$T_{vj}^{3} = {^{\circ}C}, V_{RD} = V_{RRM} \ge V$		mA
t <sub>rr</sub>	$T_{vj} = 25^{\circ}C$	10	μs
$f_G$		2000	Hz
R <sub>th(j-a)</sub>	isolated <sup>1)</sup>	5,7	K/W
() =/	chassis <sup>2)</sup>	2,5	K/W
$R_{th(j-c)}$	total	0,65	K/W
R <sub>th(c-s)</sub>	total	0,06	K/W
T <sub>vi</sub>		- 40 <b>+</b> 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	5 ± 15 %	Nm
$M_t$	to terminals	3 ± 15 %	Nm
a			m/s²
w		250	g
Fu		50	А
Case		G 14	

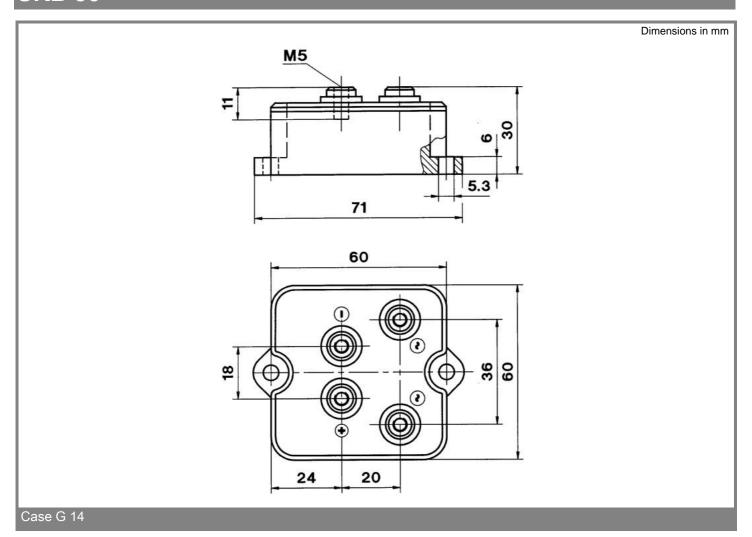












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