SKB 2

Miniature Bridge Rectifiers

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Features

- Compact plastic package with in-line terminals
- High blocking voltage

Typical Applications

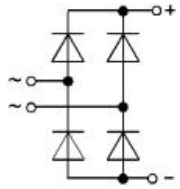
- Internal power supplies for electronic equipment
- DC power supplies
- Control equipment
- TV sets
- Recommended snubber network: RC: 10 nF, 20...50 Ω (P_R = 1 W)

1) Freely suspended or mounted on an insulator

2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

V_{RSM}, V_{RRM} V	V_{VRMS} V	I_D = 2,5 A (T_a = 45 °C) Types	C_{max} µF	R_{min} Ω
200	60	SKB 2/02L5A	3000	1
400	125	SKB 2/04L5A	2200	1,5
800	250	SKB 2/08L5A	1000	3
1200	500	SKB 2/12L5A	500	6

Symbol	Conditions	Values	Units
I_D	T_a = 45 °C, isolated[1)]	1,7	A
	T_a = 45 °C, chassis[2)]	2,5	A
I_{DCL}	T_a = 45 °C, isolated[1)]	1,4	A
	T_a = 45 °C, chassis[2)]	2	A
	T_a = °C,		A
I_{FSM}	T_{vj} = 25 °C, 10 ms	58	A
	T_{vj} = 150 °C, 10 ms	50	A
i²t	T_{vj} = 25 °C, 8,3 ... 10 ms	17	A²s
	T_{vj} = 150 °C, 8,3 ... 10 ms	12,5	A²s
V_F	T_{vj} = 25°C, I_F = 10 A	max. 1,65	V
$V_{(TO)}$	T_{vj} = 150°C	max. 0,85	V
r_T	T_{vj} = 150°C	max. 100	mΩ
I_{RD}	T_{vj} = 25°C, V_{RD}=V_{RRM} = 200 V	20	µA
	T_{vj} = 25°C, V_{RD}=V_{RRM} ≥ 400 V	5	µA
I_{RD}	T_{vj} = 150°C, V_{RD}=V_{RRM} = 200 V	1	mA
	T_{vj} = 150°C, V_{RD}=V_{RRM} ≥ 400 V	0,6	mA
t_{rr}	T_{vj} = 25°C	10	µs
f_G		2000	Hz
$R_{th(j-a)}$	isolated[1)]	30	K/W
	chassis[2)]	17,5	K/W
T_{vj}		- 40 ... + 150	°C
T_{stg}		- 55 ... + 150	°C
V_{isol}			V~
M_s			Nm
M_t			Nm
a			m/s²
w		4	g
Fu		2	A
Case		G 4	



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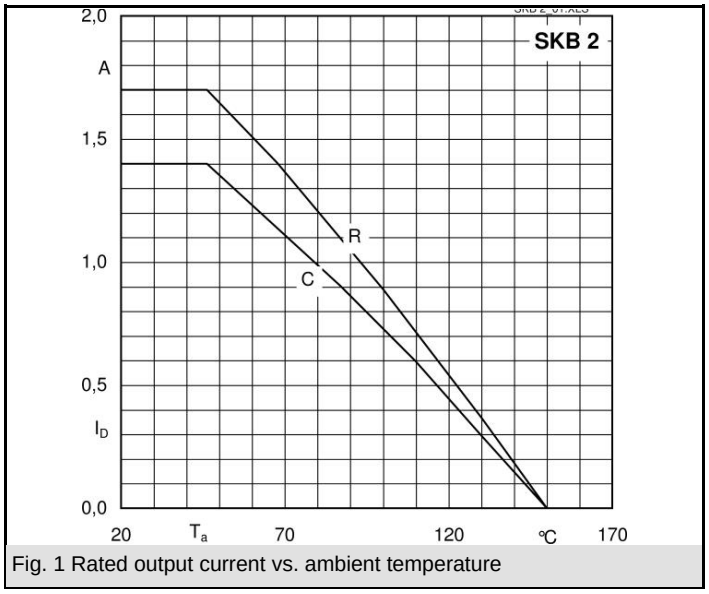

Fig. 1 Rated output current vs. ambient temperature

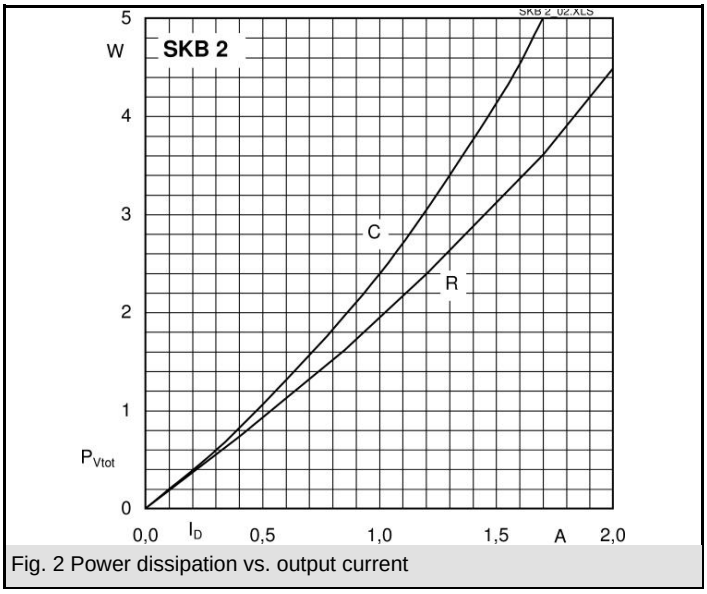

Fig. 2 Power dissipation vs. output current

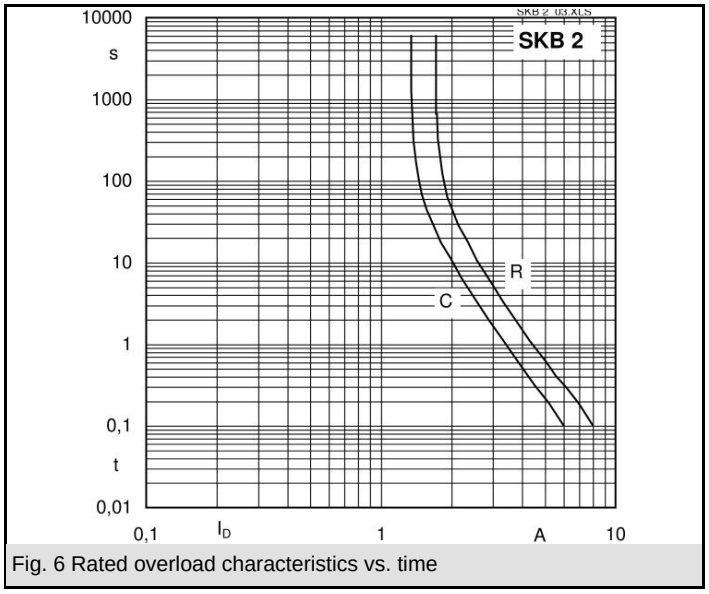

Fig. 6 Rated overload characteristics vs. time

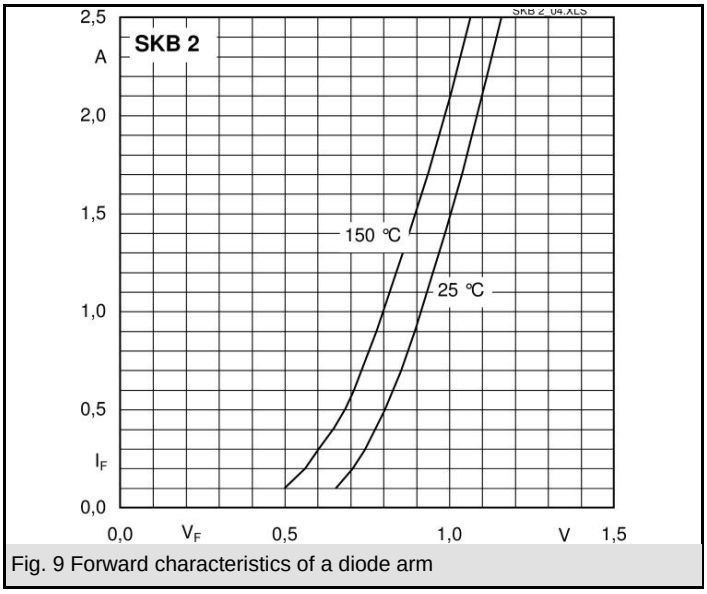

Fig. 9 Forward characteristics of a diode arm

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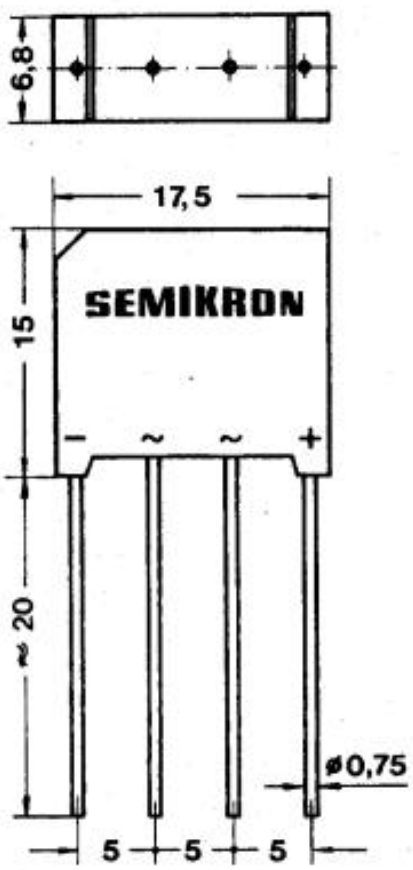
Dimensions in mm



Case G 4

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