

SKB 15



$V_{RSM} = V_{RRM}$ V	V_{VRMS} V	$I_D = 16 \text{ A } (T_c = 117^\circ\text{C})$ Types	C_{max} μF	R_{min} Ω
200	60	SKB 15/02 A2		0,16
400	125	SKB 15/04 A2		0,3
800	260	SKB 15/08 A2		0,6
1200	380	SKB 15/12 A2		0,75
1400	440	SKB 15/14 A2		0,9
1600	600	SKB 15/16 A2		1

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

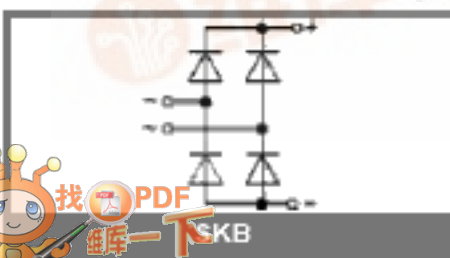
Typical Applications

- 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 Ω ($P_R = 1 \text{ W}$)

1) Freely suspended or mounted on an insulator

2) Mounted on painted metal sheet of min. 260 x 260 x 1 mm

Symbol	Conditions	Values	Units
I_D	$T_v = 45^\circ\text{C}$, isolated ¹⁾	6	A
	$T_v = 45^\circ\text{C}$, chassis ²⁾	11	A
I_{DCL}	$T_v = 45^\circ\text{C}$, isolated ¹⁾	4	A
	$T_v = 45^\circ\text{C}$, chassis ²⁾	9	A
	$T_v = 45^\circ\text{C}$, P6A/100	14	A
I_{FSM}	$T_v = 25^\circ\text{C}$, 10 ms	370	A
	$T_v = 150^\circ\text{C}$, 10 ms	320	A
P_t	$T_v = 25^\circ\text{C}$, 8,3 ... 10 ms	680	A ² s
	$T_v = 150^\circ\text{C}$, 8,3 ... 10 ms	500	A ² s
V_F	$T_v = 25^\circ\text{C}$, $I_F = 160 \text{ A}$	max. 2,2	V
$V_{(TO)}$	$T_v = 150^\circ\text{C}$	0,85	V
r_T	$T_v = 150^\circ\text{C}$	12	m Ω
I_{RD}	$T_v = 25^\circ\text{C}$, $V_{RD} = V_{RRM}$	300	μA
I_{RD}	$T_v = 150^\circ\text{C}$, $V_{RD} = V_{RRM}$	6	mA
t_{rv}	$T_v = 25^\circ\text{C}$	10	μs
f_G		2000	Hz
$R_{th(j-a)}$	isolated ¹⁾	12	KW
	chassis ²⁾	4,3	KW
$R_{th(j-c)}$	total	1	KW
$R_{th(c-w)}$	total	0,3	KW
T_{vj}		- 40 + 160	$^\circ\text{C}$
T_{stg}		- 65 ... + 150	$^\circ\text{C}$
V_{isol}	a.c. 50 ... 60 Hz; r.m.s.; 1 s / 1 min.	3000/2500	V~
M_s	to heatsink	1,5 \pm 16 %	Nm
M_t	to terminals	1 \pm 16 %	Nm
m		65	g
F_u		20	A
Case		G 9	



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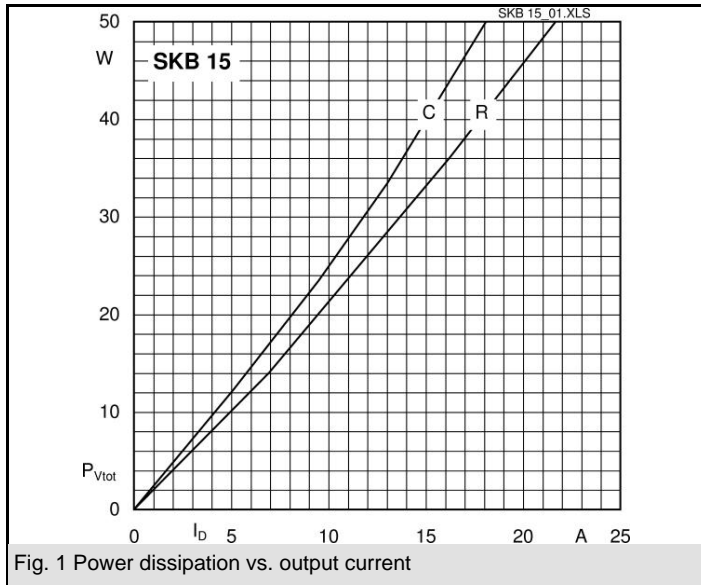


Fig. 1 Power dissipation vs. output current

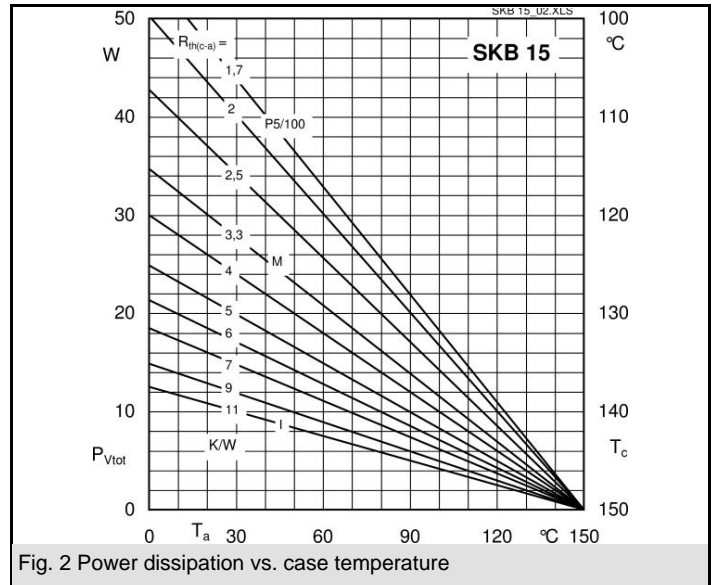


Fig. 2 Power dissipation vs. case temperature

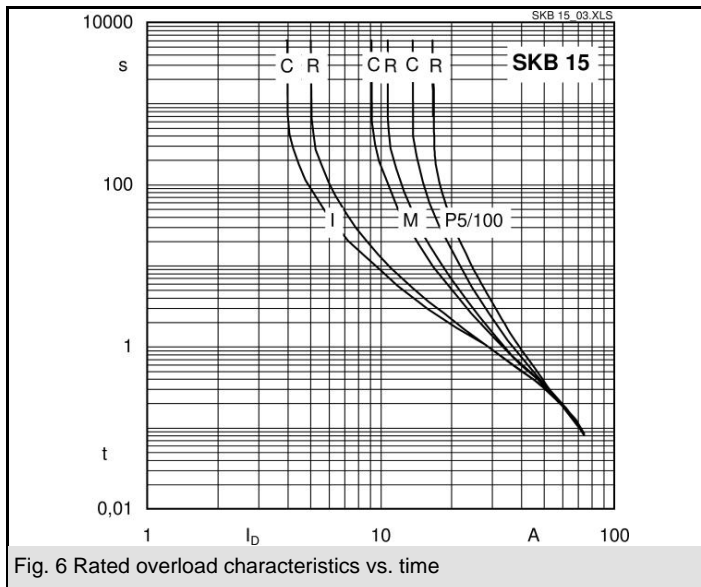


Fig. 6 Rated overload characteristics vs. time

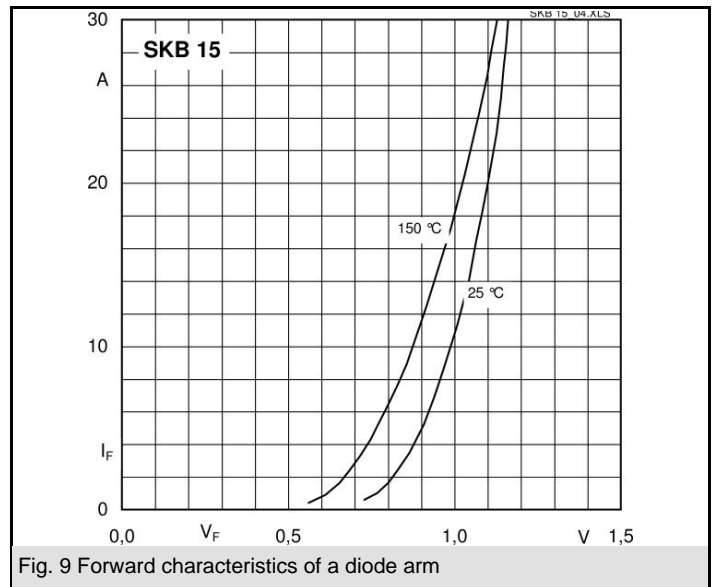
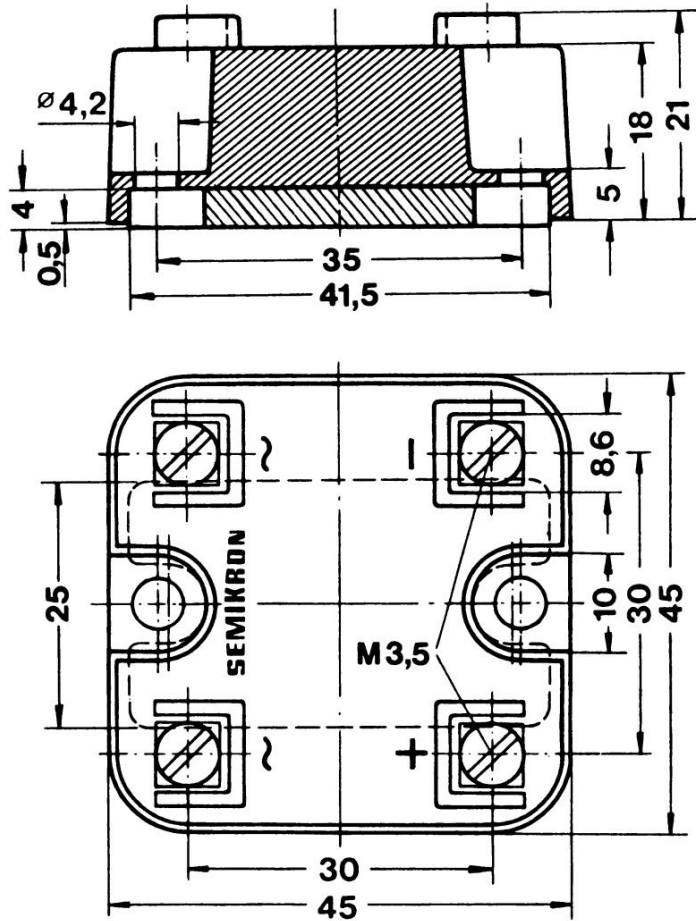


Fig. 9 Forward characteristics of a diode arm

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Dimensions in mm



Case G 9

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