SKB 15

V_{RSM}, V_{RRM} V	V_{VRMS} V	I_D = 15 A (T_c = 117 °C) Types	C_{max} µF	R_{min} 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

Power Bridge Rectifiers

SKB 15

Features

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

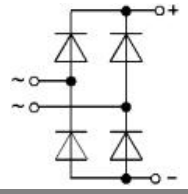
Typical Applications

- 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 Ω (P_R = 1 W)

1) Freely suspended or mounted on an insulator

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

Symbol	Conditions	Values	Units
I_D	T_a = 45 °C, isolated[1)]	5	A
	T_a = 45 °C, chassis[2)]	11	A
I_{DCL}	T_a = 45 °C, isolated[1)]	4	A
	T_a = 45 °C, chassis[2)]	9	A
	T_a = 45 °C, P5A/100	14	A
I_{FSM}	T_{vj} = 25 °C, 10 ms	370	A
	T_{vj} = 150 °C, 10 ms	320	A
i^2t	T_{vj} = 25 °C, 8,3 ... 10 ms	680	A^2s
	T_{vj} = 150 °C, 8,3 ... 10 ms	500	A^2s
V_F	T_{vj} = 25°C, I_F = 150 A	max. 2,2	V
$V_{(TO)}$	T_{vj} = 150°C	0,85	V
r_T	T_{vj} = 150°C	12	mΩ
I_{RD}	T_{vj} = 25°C, V_{RD}=V_{RRM}	300	µA
I_{RD}	T_{vj} = 150°C, V_{RD}=V_{RRM}	5	mA
t_{rr}	T_{vj} = 25°C	10	µs
f_G		2000	Hz
$R_{th(j-a)}$	isolated[1)]	12	K/W
	chassis[2)]	4,3	K/W
$R_{th(j-c)}$	total	1	K/W
$R_{th(c-s)}$	total	0,3	K/W
T_{vj}		- 40 + 150	°C
T_{stg}		- 55 ... + 150	°C
V_{isol}	a.c. 50 ... 60 Hz; r.m.s.; 1 s / 1 min.	3000/2500	V~
M_s	to heatsink	1,5 ± 15 %	Nm
M_t	to terminals	1 ± 15 %	Nm
m		65	g
Fu		20	A
Case		G 9	



SKB

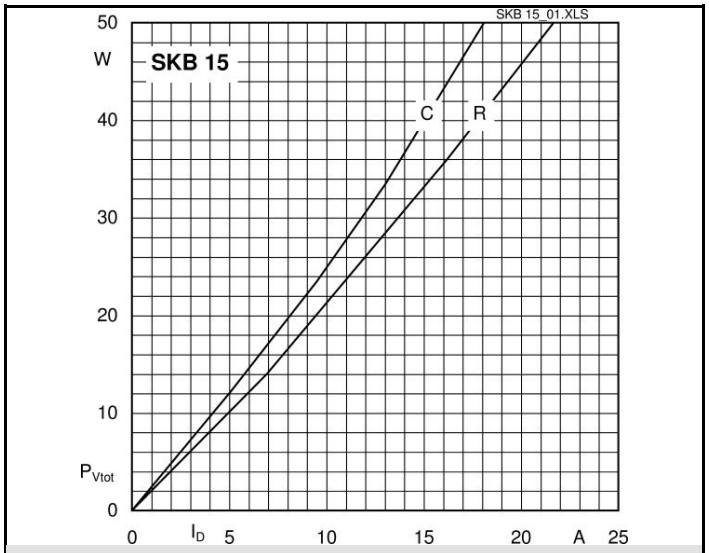


Fig. 1 Power dissipation vs. output current

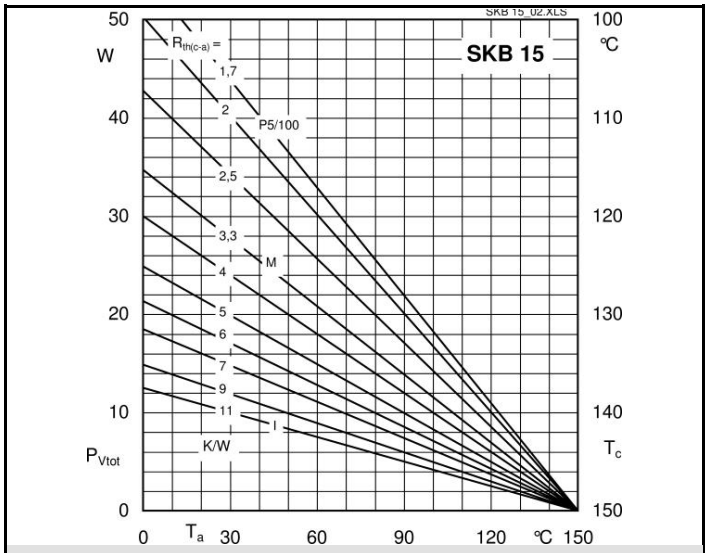


Fig. 2 Power dissipation vs. case temperature

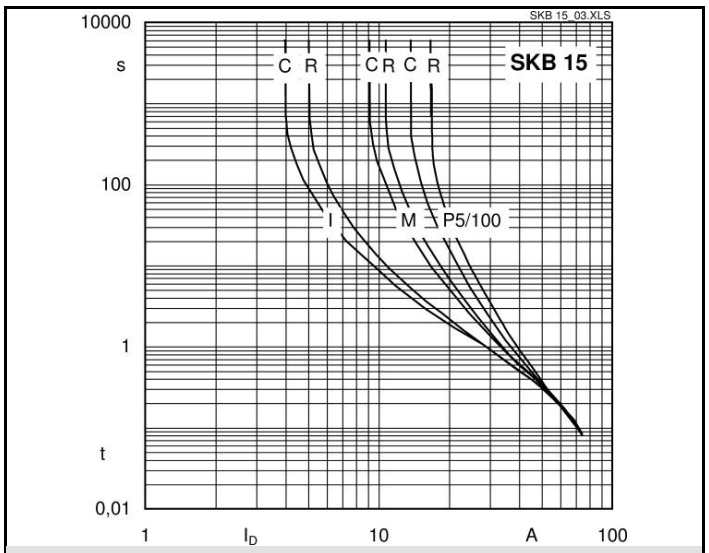


Fig. 6 Rated overload characteristics vs. time

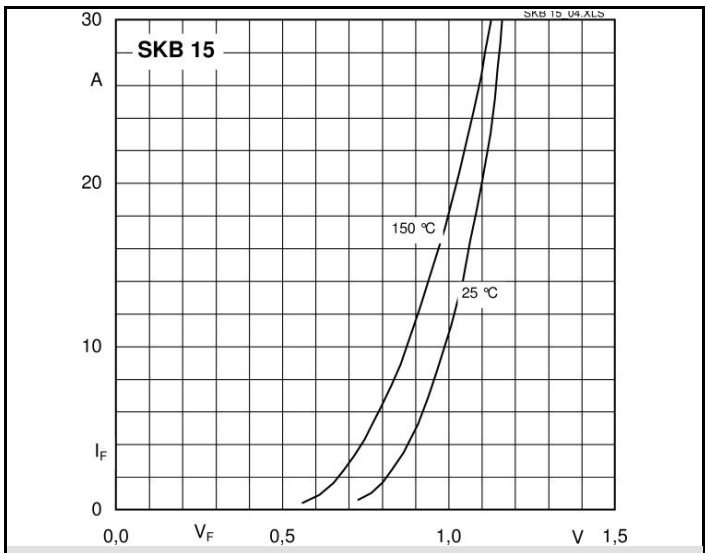
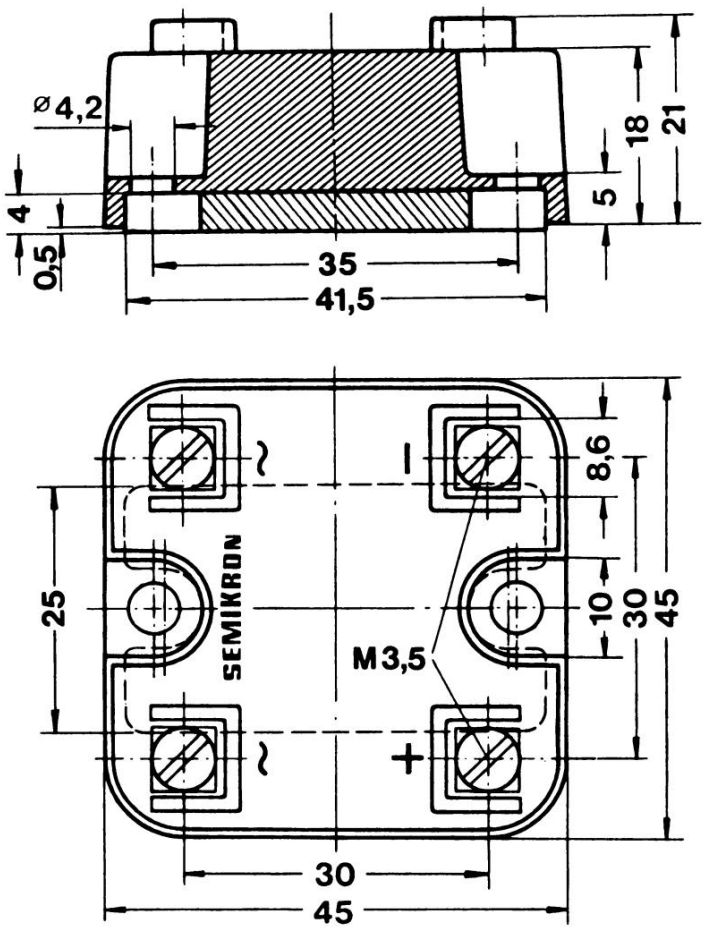


Fig. 9 Forward characteristics of a diode arm

SKB 15

Dimensions in mm



Case G 9

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