

Power Bridge Rectifiers

SKB 15

Features

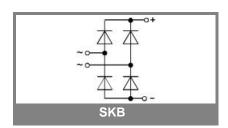
- Square plastic case with screw terminals
- Blocking voltage up to 1600 V
- Metal baseplate for improved heat transfer

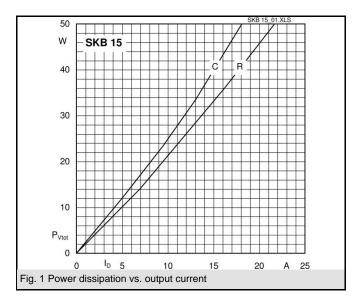
Typical Applications

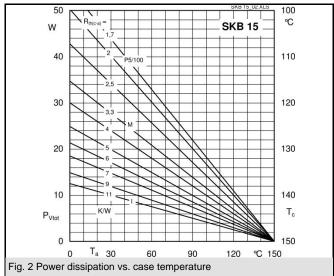
- Internal power supplies for electronic equipment
- Electronic control equipment
- DC motors
- · Field rectifiers for DC motors
- Battery charger rectifiers
- Recommended snubber network: RC: 100 nF, 20...50 Ω (P $_{\rm R}$ = 1 W)
- Freely suspended or mounted on an insulator
- 2) Mounted on apainted metal sheet of min.250 x 250 x 1 mm

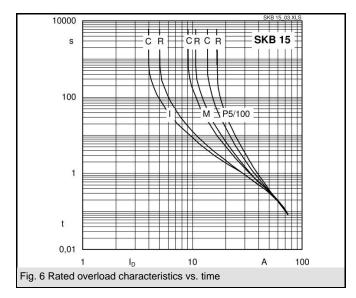
V _{RSM} , V _{RRM}	V_{VRMS}	I _D = 15 A (T _c = 117 °C)	C _{max}	R _{min}
V	V	Types	μF	Ω
200	60	SKB 15/02 A2		0,15
400	125	SKB 15/04 A2		0,3
800	250	SKB 15/08 A2		0,5
1200	380	SKB 15/12 A2		0,75
1400	440	SKB 15/14 A2		0,9
1600	500	SKB 15/16 A2		1

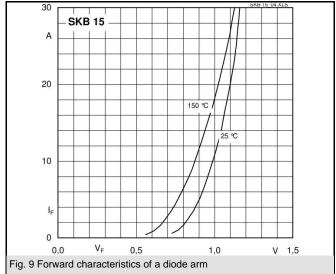
Symbol	Conditions	Values	Units
I _D	T _a = 45 °C, isolated ¹⁾	5	Α
	T _a = 45 °C, chassis ²⁾	11	Α
I _{DCL}	T _a = 45 °C, isolated ¹⁾	4	Α
	$T_a = 45 ^{\circ}\text{C}, \text{ chassis}^{2)}$	9	Α
	T _a = 45 °C, P5A/100	14	Α
I _{FSM}	T _{vi} = 25 °C, 10 ms	370	А
	T _{vi} = 150 °C, 10 ms	320	Α
i²t	T _{vj} = 25 °C, 8,3 10 ms	680	A²s
	T _{vj} = 150 °C, 8,3 10 ms	500	A²s
V _F	T _{vi} = 25°C, I _F = 150 A	max. 2,2	V
$V_{(TO)}$	T _{vj} = 150°C	max. 0,85	V
r _T	$T_{vj} = 150^{\circ}C$	max. 12	mΩ
I_{RD}	$T_{vj}^{s} = 25^{\circ}C, V_{RD} = V_{RRM}$	300	μA
	$T_{vj}^{s} = {^{\circ}C}, V_{RD} = V_{RRM} \ge V$		μA
I_{RD}	$T_{vj} = 150$ °C, $V_{RD} = V_{RRM}$	5	mA
	$T_{vj} = {^{\circ}C}, V_{RD} = V_{RRM} \ge V$		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 _{vi}		- 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
а			m/s²
w		65	g
Fu		20	А
Case		G 9	

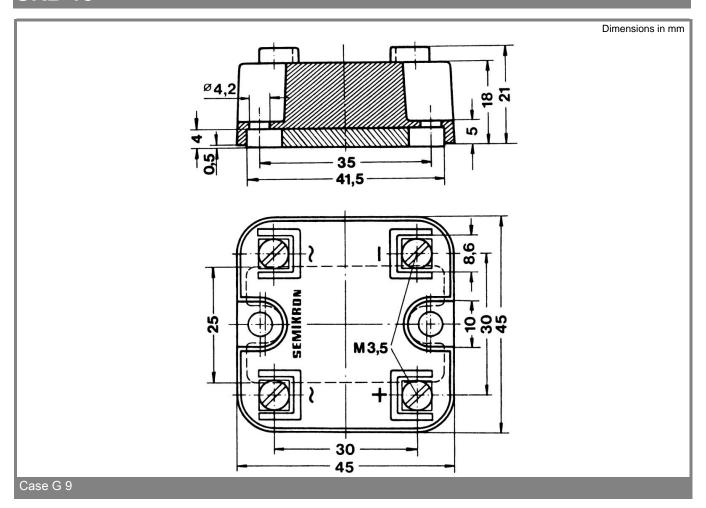












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