

SEMIPONT[®] 2

Power Bridge Rectifiers

SKB 60

Features

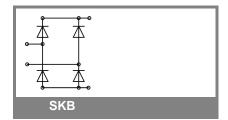
- Robust plastic case with screw terminals
- · Large, isolated base plate
- Blocking voltage to 1600 V
- · High surge currents
- Single phase bridge rectifier
- · Easy chassis mounting
- UL recognized, file no. E 63 532

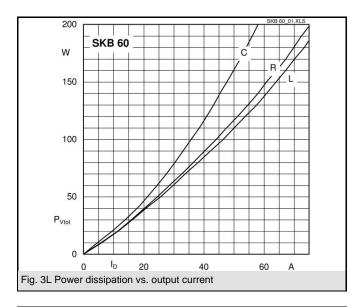
Typical Applications

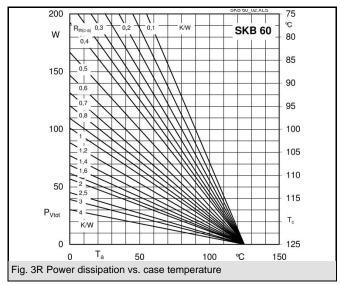
- Single phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- · Battery charger rectifiers
- 1) Painted metal sheet of minimum 250 x 250 x 1 mm: Rh_{th(c-a)} = 1,8 K/W

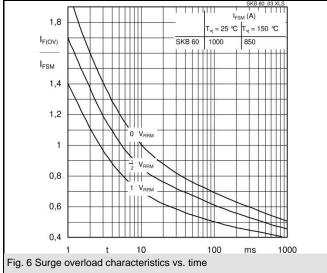
V _{RSM}	V_{RRM}, V_{DRM}	I _D = 60 A (full conduction)
V	V	$(T_c = 88 ^{\circ}C)$
400	400	SKB 60/04
800	800	SKB 60/08
1200	1200	SKB 60/12
1400	1400	SKB 60/14
1600	1600	SKB 60/16

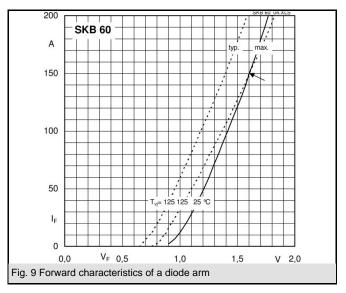
Symbol	Conditions	Values	Units
I _D	T _c = 85 °C	67	Α
	inductive load		Α
	T _a = 45 °C, chassis ¹⁾	20	Α
	T _a = 45 °C; P13A/125 (P1A/120)	25 (44)	Α
	T _a = 35 °C, P1A/200F	88	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	1000	Α
	T _{vi} = 125 °C; 10 ms	850	Α
i²t	T _{vi} = 25 °C; 8,3 10 ms	5000	A²s
	T _{vj} = 125 °C; 8,3 10 ms	3600	A²s
V_{F}	T _{vi} = 25 °C; I _F = 150 A	max. 1,6	V
V _(TO)	T _{vi} = 125 °C	max. 0,85	V
r _T	T _{vi} = 125 °C	max. 5	mΩ
I_{RD}	$T_{vj}^{3} = 25 \text{ °C; } V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$	max. 0,5	mA
	T_{vj}^{J} = 125 °C, V_{RD} = V_{RRM}	2	mA
R _{th(j-c)}	per diode	1	K/W
ui(j-c)	total	0,25	K/W
$R_{th(c-s)}$	total	0,05	K/W
T _{vj}		- 40 + 125	°C
T _{stg}		- 40 + 125	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 (3000)	V
M _s	to heatsink	5 ± 15 %	Nm
M _t	to terminals	5 ± 15 %	Nm
m		165	g
Case		G 17	

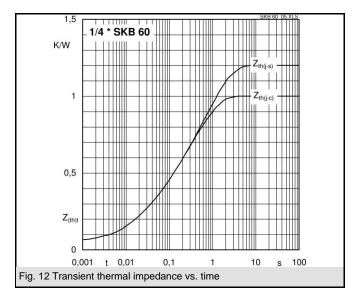


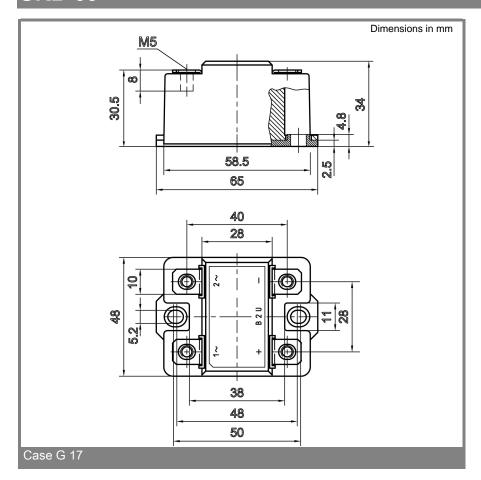












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