

# SEMIPONT® 2

## Power Bridge Rectifiers

#### **SKB 60**

#### **Features**

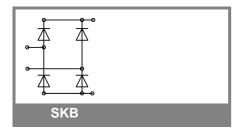
- Robust plastic case with screw terminals
- Large, isolated base plate
- Blocking voltage to 1600 V
- High surge currents
- Single phase bridge rectifier
- Easy chassis mounting
- UL recognized, file no. E 63 532

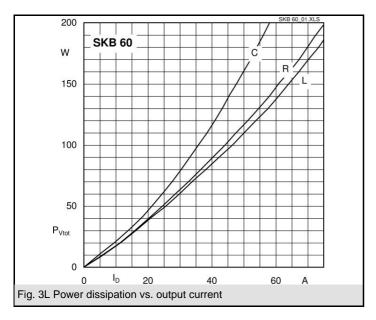
### **Typical Applications**

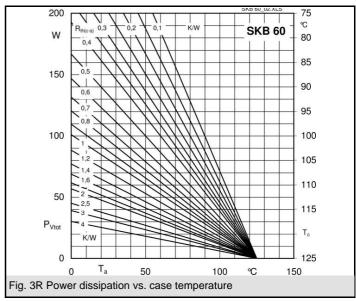
- Single phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- · Battery charger rectifiers
- 1) Painted metal sheet of minimum 250 x 250 x 1 mm: Rh<sub>th(c-a)</sub> = 1,8 K/W

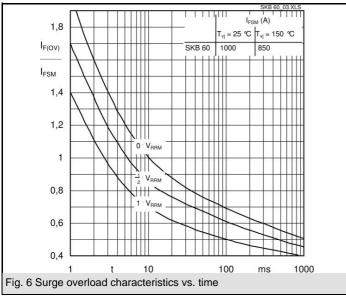
V <sub>RSM</sub>	$V_{RRM}, V_{DRM}$	I <sub>D</sub> = 60 A (full conduction)
V	V	(T <sub>c</sub> = 88 °C)
400	400	SKB 60/04
800	800	SKB 60/08
1200	1200	SKB 60/12
1400	1400	SKB 60/14
1600	1600	SKB 60/16

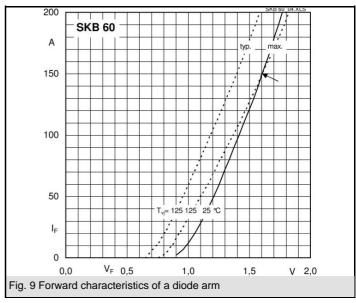
Symbol	Conditions	Values	Units
I <sub>D</sub>	T <sub>c</sub> = 85 °C	67	Α
5	inductive load		Α
	$T_a = 45  ^{\circ}\text{C}$ , chassis <sup>1)</sup>	20	Α
	T <sub>a</sub> = 45 °C; P13A/125 (P1A/120)	25 (44)	Α
	T <sub>a</sub> = 35 °C, P1A/200F	88	Α
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	1000	Α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

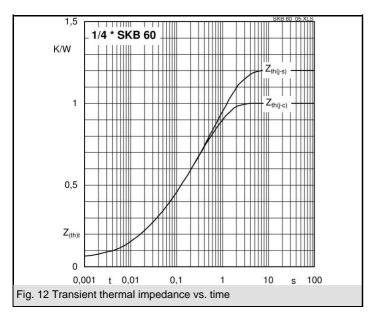


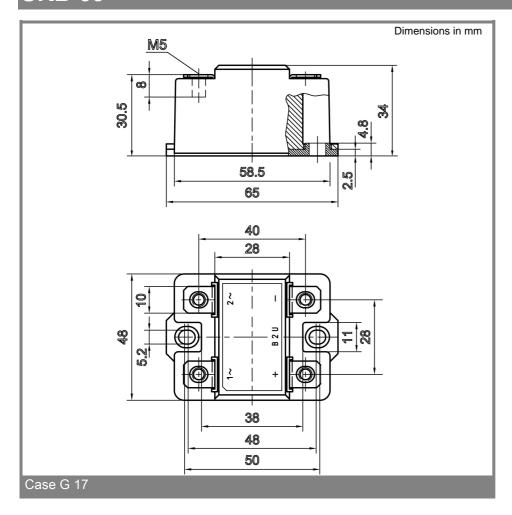












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