

# SEMIPONT® 3

## Power Bridge Rectifiers

#### **SKD 62**

#### **Features**

- Robust plastic case with screw terminals
- · Large, isolated base plate
- Blocking voltage up to 1800 V
- High surge currents
- Three phase bridge rectifier
- · Easy chassis mounting
- UL recognized, file no. E 63 532

### **Typical Applications**

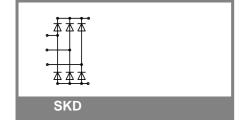
- Three phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- · Battery charger rectifiers
- Freely suspended or mounted on an insulator
- 2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm;

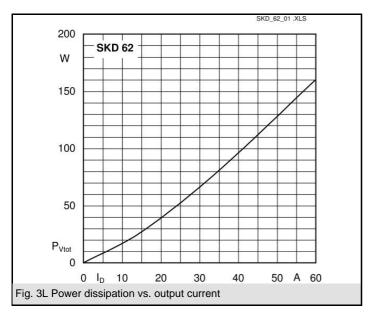
 $R_{th(s-a)} = 1.8 \text{ K/W}$ 

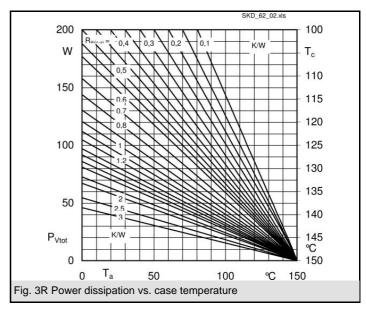
3) Available in limited quantities

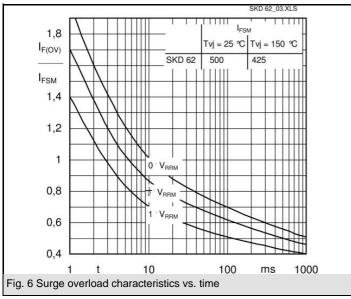
$V_{RSM}$	$V_{RRM}, V_{DRM}$	I <sub>D</sub> = 60 A (full conduction)
V	V	(T <sub>c</sub> = 110 °C)
400	400	SKD 62/04
800	800	SKD 62/08
1200	1200	SKD 62/12
1400	1400	SKD 62/14
1600	1600	SKD 62/16
1800	1800	SKD 62/18 <sup>3)</sup>

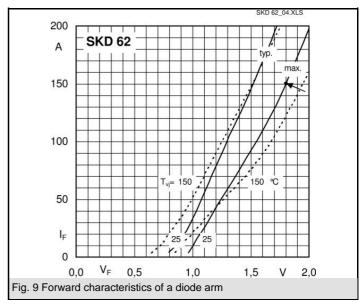
Symbol	Conditions	Values	Units
I <sub>D</sub>	T <sub>c</sub> = 85 °C	86	Α
	resistive / inductive load		
	T <sub>a</sub> = 45 °C; isolated <sup>1)</sup>	10,5	Α
	$T_a = 45  ^{\circ}\text{C}$ ; chassis $^{2)}$	24	Α
	T <sub>a</sub> = 45 °C; P1A/120 (P 1A/200)	46 (53)	Α
I <sub>FSM</sub>	T <sub>vj</sub> = 25 °C; 10 ms	500	Α
	T <sub>vi</sub> = 150 °C; 10 ms	425	Α
i²t	T <sub>vj</sub> = 25 °C; 8,3 10 ms ms	1250	A²s
	T <sub>vj</sub> = 150 °C; 8,3 10 ms ms	900	A²s
V <sub>F</sub>	T <sub>vi</sub> = 25 °C; I <sub>F</sub> = 150 A	max. 1,8	V
V <sub>(TO)</sub>	T <sub>vi</sub> = 150 °C	max. 0,85	V
r <sub>T</sub>	T <sub>vi</sub> = 150 °C	max. 8	mΩ
$I_{RD}$	$T_{vj}^{3}$ = 25 °C; $V_{DD}$ = $V_{DRM}$ ; $V_{RD}$ = $V_{RRM}$	max. 0,5	mA
	$T_{vj}^{*} = 150 \text{ °C}; V_{RD} = V_{RRM}$	5	mA
R <sub>th(j-c)</sub>	per diode	1,5	K/W
uig-c)	total	0,25	K/W
R <sub>th(c-s)</sub>		0.07	K/W
T <sub>vi</sub>		-40 <b>+</b> 150	°C
T <sub>stg</sub>		-40 <b>+</b> 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 <sub>t</sub>	to terminals	5 ± 15%	Nm
m		165	g
Case		G 36	

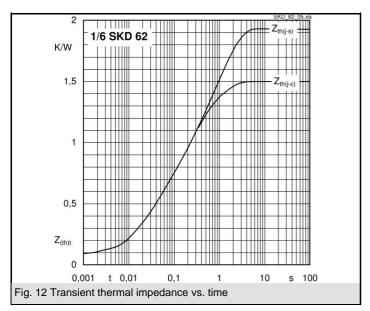


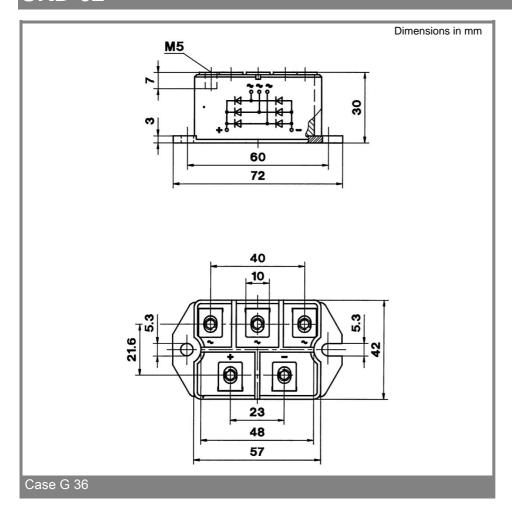












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