

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

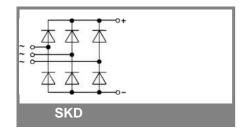
- Three phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- · Battery charger rectifiers
- Freely suspended or mounted on an insulator
- 2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm;

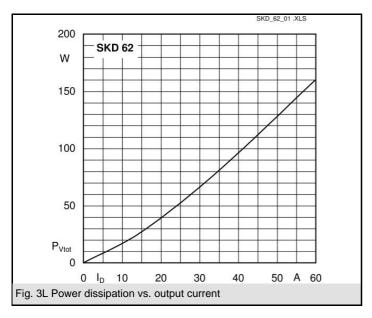
 $R_{th(s-a)} = 1.8 \text{ K/W}$

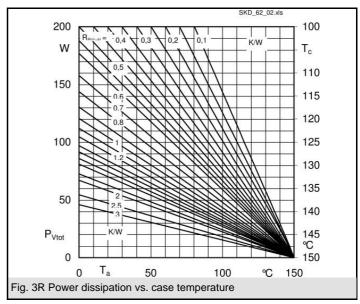
3) Available in limited quantities

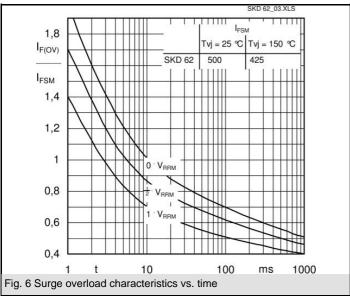
V_{RSM}	V_{RRM}, V_{DRM}	I _D = 60 A (full conduction)
V	V	(T _c = 110 °C)
400		SKD 62/04
800		SKD 62/08
1200		SKD 62/12
1400		SKD 62/14
1600		SKD 62/16
1800		SKD 62/18 ³⁾

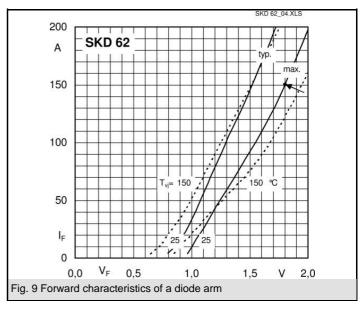
Symbol	Conditions	Values	Units
I _D	T _c = 85 °C	86	Α
	resistive / inductive load		
	T _a = 45 °C; isolated ¹⁾	10,5	Α
	$T_a = 45 ^{\circ}\text{C}$; chassis $^{2)}$	24	Α
	T _a = 45 °C; P1A/120 (P 1A/200)	46 (53)	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	500	Α
	T _{vi} = 150 °C; 10 ms	425	Α
i²t	$T_{vj} = 25 ^{\circ}\text{C}; 8,3 \dots 10 \text{ms ms}$	1250	A²s
	T _{vj} = 150 °C; 8,3 10 ms ms	900	A²s
V_{F}	T _{vi} = 25 °C; I _F = 150 A	max. 1,8	V
V _(TO)	T _{vi} = 150 °C	0,85	V
r _T	T _{vi} = 150 °C	8	mΩ
I _{RD}	$T_{vj} = 25 \text{ °C}; V_{DD} = V_{DRM}, V_{RD} = V_{RRM}$	max. 0,5	mA
	$T_{vj}^{j} = 150 \text{ °C}; V_{RD} = V_{RRM}$	5	mA
R _{th(j-c)}	per diode	1,5	K/W
tritj-c)	total	0,25	K/W
R _{th(c-s)}		0.07	K/W
T _{vj}		-40 + 150	°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 36	

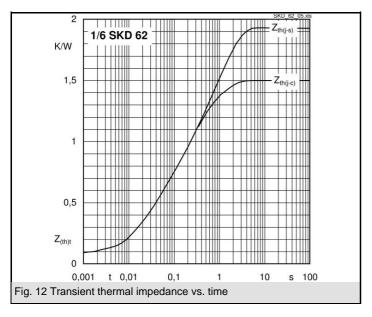


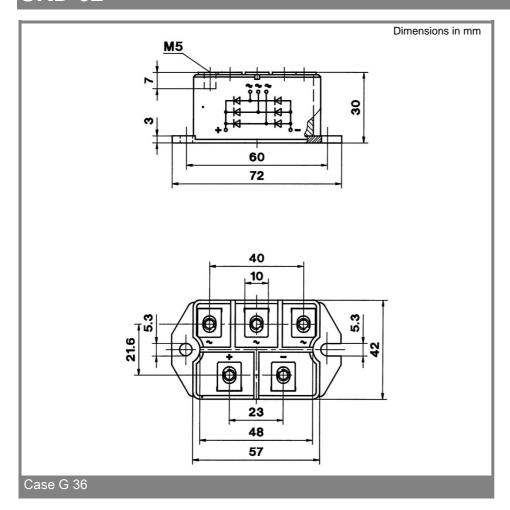












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