

# SEMIPONT® 3

## Power Bridge Rectifiers

#### **SKB 72**

#### **Features**

- Robust plastic case with screw terminals
- · Large, isolated base plate
- Blocking voltage up to 1800 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

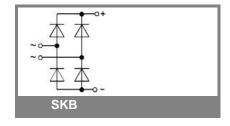
1)	Freely suspended or mounted
	on an isolator

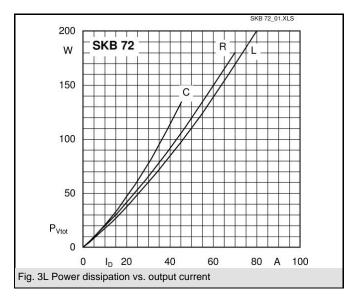
Mounted on a painted metal sheet of min. 250 x 250 x 1 mm;

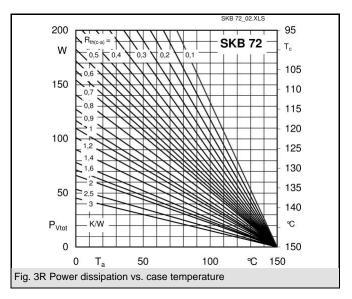
$$R_{th(s-a)} = 1.8 \text{ K/W}$$

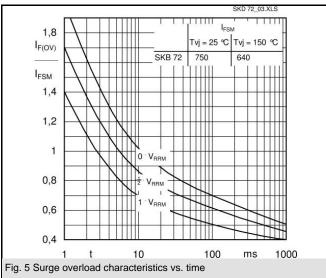
$V_{RSM}$	$V_{RRM}, V_{DRM}$	I <sub>D</sub> = 70 A (full conduction)
V	V	(T <sub>c</sub> = 101 °C)
400	400	SKB 72/04
800	800	SKB 72/08
1200	1200	SKB 72/12
1400	1400	SKB 72/14
1600	1600	SKB 72/16
1800	1800	SKB 72/18

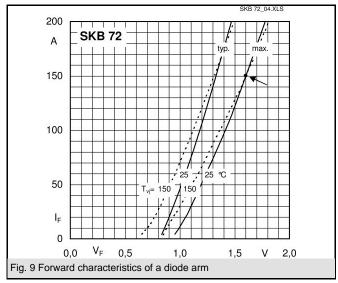
Symbol	Conditions	Values	Units
I <sub>D</sub>	T <sub>c</sub> = 85 °C	86	Α
	resistive / inductive load		
	T <sub>a</sub> = 45 °C; isolated <sup>1)</sup>	10	Α
	T <sub>a</sub> = 45 °C; chassis <sup>2)</sup>	23,5	Α
	T <sub>a</sub> = 45 °C; P1A/120 (P1A/200)	48 (54)	Α
I <sub>FSM</sub>	T <sub>vj</sub> = 25 °C; 10 ms	750	Α
	T <sub>vi</sub> = 150 °C; 10 ms	640	Α
i²t	T <sub>vj</sub> = 25 °C; 8,3 10 ms ms	2800	A²s
	T <sub>vj</sub> = 150 °C; 8,3 10 ms ms	2000	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> = 150 °C	max. 0,85	V
r <sub>T</sub>	T <sub>vi</sub> = 150 °C	max. 5	mΩ
$I_{RD}$	$T_{vj}^{3} = 25 \text{ °C}; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$	max. 0,5	mA
	$T_{vj}^{j}$ = 150 °C; $V_{RD} = V_{RRM}$	6	mA
R <sub>th(j-c)</sub>	per diode	1,1	K/W
	total	0,275	K/W
$R_{\text{th(c-s)}}$	total	0,07	K/W
T <sub>vi</sub>		-40 <b>+</b> 150	°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 <sub>t</sub>	to terminals	5 ± 15%	Nm
m		165	g
Case		G 35	

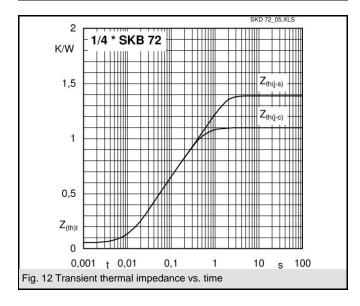


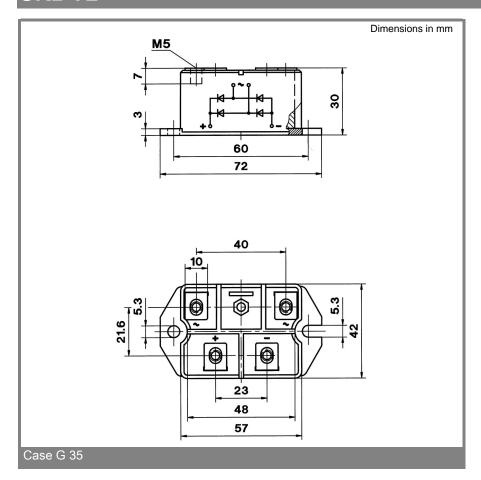












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