# **SKB 72**



SEMIPONT<sup>®</sup> 3

### Power Bridge Rectifiers

#### **SKB 72**

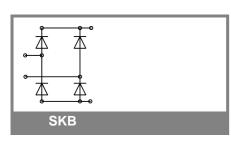
### Features

- 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;

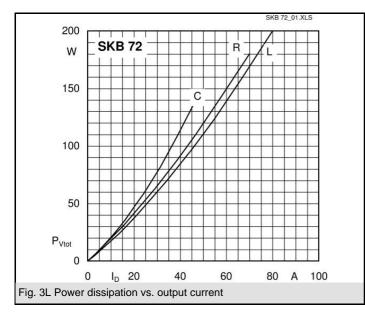
R <sub>th(s-a)</sub> = 1,8 K/W

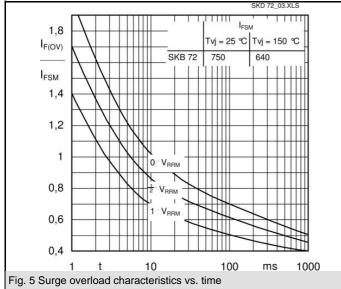


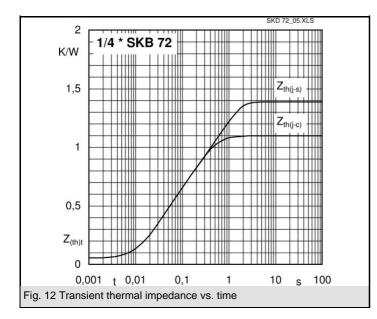
V <sub>RS</sub>	M	V <sub>RRM</sub> , V <sub>DRM</sub>	I <sub>D</sub> = 70 A (full conduction)
V		V	(T <sub>c</sub> = 101 °C)
400	2	400	SKB 72/04
800	D	800	SKB 72/08
120	0	1200	SKB 72/12
140	0	1400	SKB 72/14
160	0	1600	SKB 72/16
180	0	1800	SKB 72/18

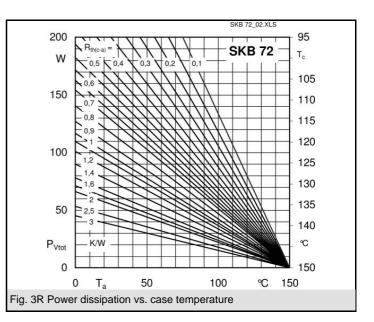
Symbol	Conditions	Values	Units
I <sub>D</sub>	T <sub>c</sub> = 85 °C	86	А
5	resistive / inductive load		
	$T_a = 45 \text{ °C}; \text{ isolated } ^1)$	10	А
	$T_a = 45 \text{ °C}; \text{ chassis }^{2)}$	23,5	А
	T <sub>a</sub> = 45 °C; P1A/120 (P1A/200)	48 (54)	А
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C;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

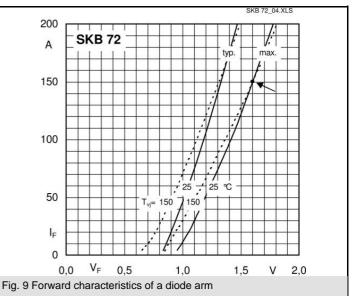
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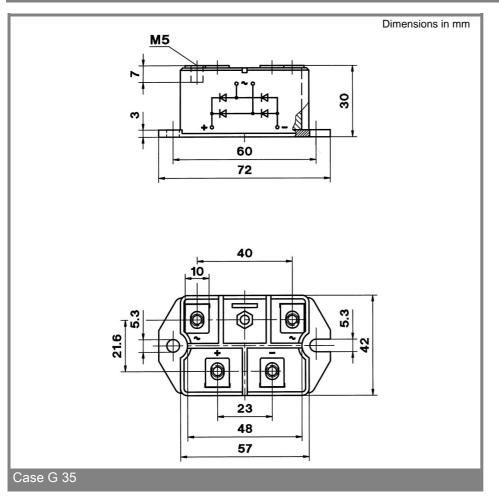








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