## **SKB 25**



V<sub>RSM</sub>, V<sub>RRM</sub>

V

100

200

400

600

800

1200

1400

1600

Symbol

Case

V<sub>VRMS</sub>

V

Conditions

## Power Bridge R

	Oymbol	oonaniona	Values	Onits
	I <sub>D</sub>	$T_a = 45 \text{ °C}$ , isolated <sup>1)</sup>	3,5	А
Power Bridge Rectifiers		$T_a = 45 \text{ °C}, \text{ chassis}^{2)}$	10	А
Ŭ	IDCL	$T_a = 45 \text{ °C}, \text{ isolated}^{1)}$	3	Α
	-	$T_a = 45 \text{ °C}, \text{ chassis}^{2)}$	9,5	А
SKB 25		T <sub>a</sub> = °C,		А
	I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C, 10 ms	370	Α
	-	T <sub>vi</sub> = 150 °C, 10 ms	320	А
	i²t	T <sub>vi</sub> = 25 °C, 8,3 10 ms	680	A²s
		T <sub>vj</sub> = 150 °C, 8,3 10 ms	500	A²s
Features	V <sub>F</sub>	T <sub>vi</sub> = 25°C, I <sub>F</sub> = 150 A	max. 2,2	V
Square plastic case with isolated	V <sub>(TO)</sub>	$T_{vi} = 150^{\circ}C$	max. 0,85	V
metal base plate and	r <sub>T</sub>	$T_{vi} = 150^{\circ}C$	max. 12	mΩ
fast-on connectors	I <sub>RD</sub>	$T_{v_i}^3 = 25^{\circ}C, V_{RD} = V_{RRM}$	300	μA
Blocking voltage up to 1600 V		$T_{vj} = °C, V_{RD} = V_{RRM} \ge V$		μA
<ul> <li>High surge current</li> </ul>	I <sub>RD</sub>	$T_{vj} = 150^{\circ}C, V_{RD} = V_{RRM}$	5	mA
<ul> <li>Easy chassis mounting</li> </ul>		$T_{vj} = °C, V_{RD} = V_{RRM} \ge V$		mA
• UL recognized, file no. E 63 532	t <sub>rr</sub>	$T_{vj} = 25^{\circ}C$	10	μs
• OE recognized, me no. E 05 552	f <sub>G</sub>		2000	Hz
Typical Applications*	R <sub>th(j-a)</sub>	isolated <sup>1)</sup>	15	K/W
Rectifier for power supplies	- 6 - 7	chassis <sup>2)</sup>	4,7	K/W
<ul> <li>Input rectifier for variable</li> </ul>	R <sub>th(j-c)</sub>	total	2	K/W
frequency drives	R <sub>th(c-s)</sub>	total	0,15	K/W
Rectifier for DC motor field	Τ <sub>vj</sub>		- 40 + 150	°C
supplies	T <sub>stg</sub>		- 55 + 150	°C
<ul> <li>Battery charger rectifiers</li> </ul>	V <sub>isol</sub>	a.c. 50 60 Hz; r.m.s.; 1 s / 1 min.	3000 / 2500	V~
<ul> <li>Recommended snubber network:</li> </ul>	M <sub>s</sub>	to heatsink	2 ± 15 %	Nm
	M <sub>t</sub>			Nm
RC: 50 Ω, 0.1 μF (P <sub>R</sub> = 1 W)	а			m/s²
1) Freely suspended or mounted	w		24	g
on an insulator	Fu		20	А

 $I_{\rm D} = 17 \text{ A} (T_{\rm c} = 75 \text{ °C})$ 

Types

SKB 25/01

SKB 25/02

SKB 25/04

SKB 25/06

SKB 25/08

SKB 25/12

SKB 25/14

SKB 25/16

C<sub>max</sub>

μF

Values

G 10b

 $\mathsf{R}_{\min}$ 

Ω

0,1

0,15

0,3

0,5

0,7

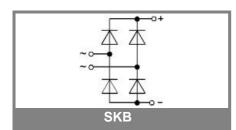
1

1,2

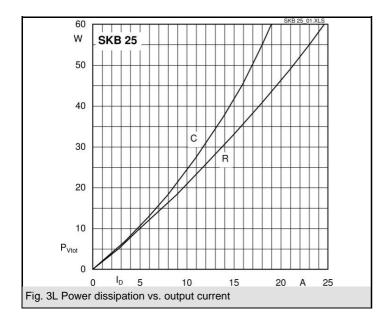
1,5

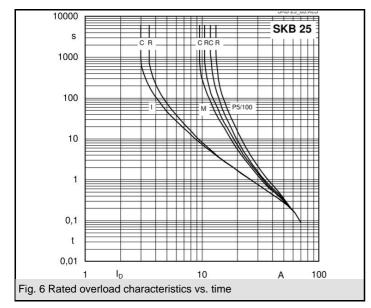
Units

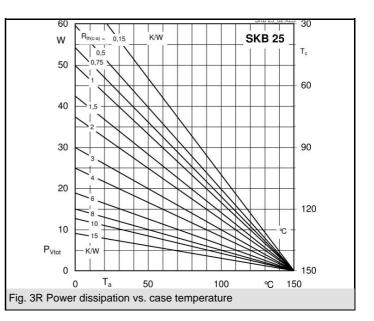
- RC: 50 Ω, 0.1 μF (P 1) Freely suspended or mo on an insulator
- 2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

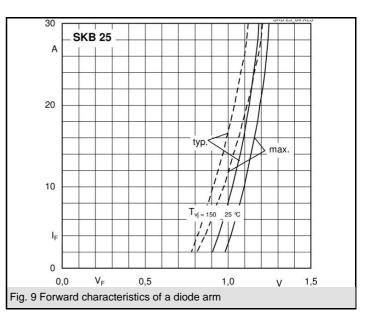


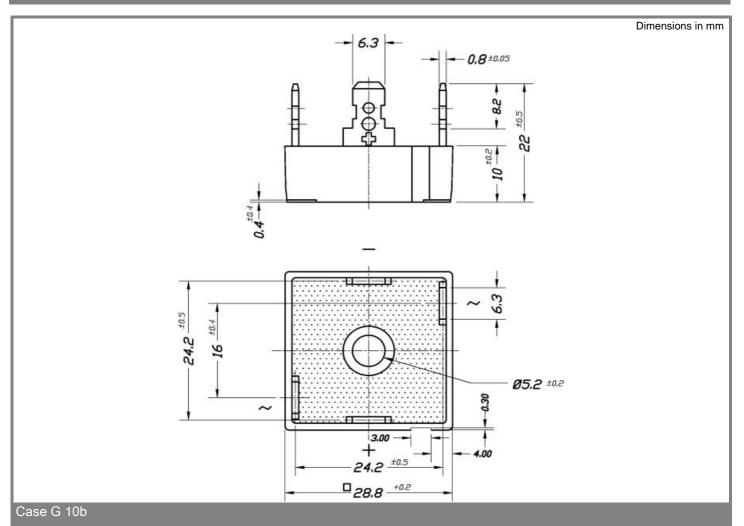
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\* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our personal.