# SKBa 30



### **Power Bridge Rectifiers**

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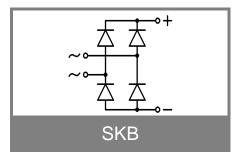
### **Features**

- Isolated metal case with screw terminals
- Avalanche characteristic
- High surge currents
- Easy chassis mounting
- UL recognized, file no. E 63 532

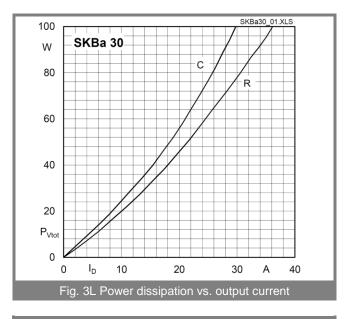
- Typical ApplicationsSingle phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- Battery charger rectifiers
- Recommended snubber network: R<sub>C</sub>: 0.1  $\mu$ F, 50  $\Omega$  (P<sub>R</sub> = 1 W)
- Freely suspended or mounted on an 1) insulator
- Mounted on a painted metal sheet of 2) min. 250 x 250 x 1 mm

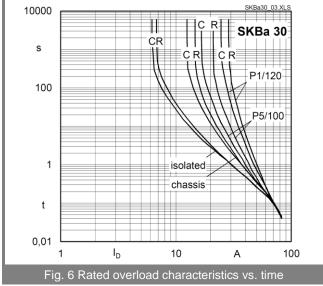
V <sub>(BR)</sub>	V <sub>RMS</sub>	I <sub>D</sub> = 30 A (T <sub>c</sub> = 94 °C)	C <sub>máx</sub>	R <sub>min</sub>
V	V	Types	μF	Ω
1700	500	SKBa 30/17		

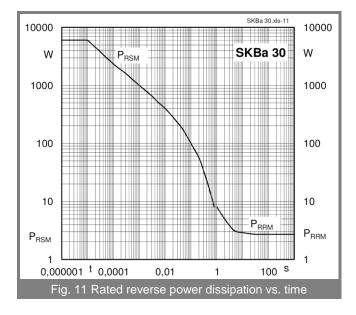
Symbol	Conditions	Values	Units
I <sub>D</sub> I <sub>DCL</sub>	$T_a = 45 \text{ °C, isolated}^{1)}$ $T_a = 45 \text{ °C, chassis}^{2)}$ $T_a = 45 \text{ °C, isolated}^{1)}$ $T_a = 45 \text{ °C, chassis}^{2)}$	6,5 15 6 13	A A A A
I <sub>FSM</sub> i <sup>2</sup> t P <sub>RSM</sub>	$\begin{array}{l} T_{vj} = 25 \ ^{o}C \ ; \ 10 \ ms \\ T_{vj} = 150 \ ^{o}C \ ; \ 10 \ ms \\ T_{vj} = 25 \ ^{o}C \ ; \ 8.3 \ 10 \ ms \\ T_{vj} = 150 \ ^{o}C \ ; \ 8.3 \ 10 \ ms \\ T_{p} = 10 \ \mu s \end{array}$	370 320 680 500 6	A A <sup>2</sup> s A <sup>2</sup> s kW
$\begin{array}{c} V_{\text{F}} \\ V_{(\text{TO})} \\ r_{\text{T}} \\ I_{\text{RD}} \\ I_{\text{RD}} \\ t_{\text{rr}} \\ f_{\text{G}} \end{array}$	$\begin{array}{l} T_{vj} = 25 \ ^oC, \ I_F = 150 \ A \\ T_{vj} = 150 \ ^oC \\ T_{vj} = 150 \ ^oC \\ T_{vj} = 25 \ ^oC \ ; \ V_{RD} = V_{RRM} \\ T_{vj} = 150 \ ^oC \ ; \ V_{RD} = V_{RRM} \\ T_{vj} = 25 \ ^oC \end{array}$	max. 2,2 max. 0,85 max. 12 300 5 typ. 25 2000	V V μA mA Hz
$\begin{array}{c} R_{th(j\text{-}a)} \\ R_{th(j\text{-}c)} \\ R_{th(c\text{-}s)} \\ T_{vj} \\ T_{stg} \end{array}$	isolated <sup>1)</sup> chassis <sup>2)</sup> total total	8,5 3,3 0,7 0,1 -40 +150 -55 +150	ô ô XX XX XX XX
V <sub>isol</sub> M <sub>s</sub> M <sub>t</sub> A W	a. c. 50 60 Hz; r.m.s.; 1 s / 1 min. to heatsink SI units to terminals SI units approx.	3000 / 2500 5 ± 15 % 1,5 ± 15 % 125	V~ Nm Nm m/s² g
Case		G 12	

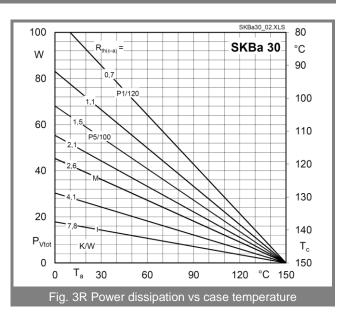


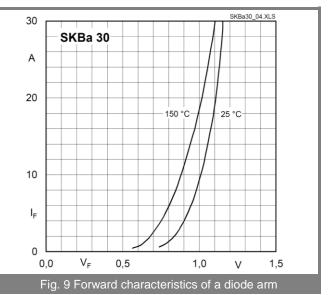
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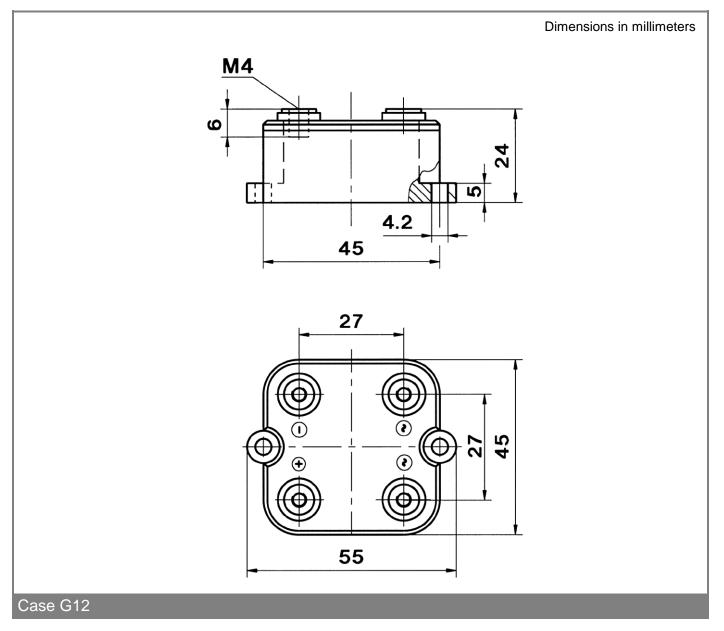








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