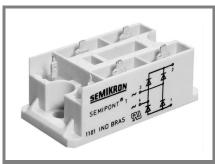
SKB 28



SEMIPONT® 1

Power Bridge Rectifiers SKB 28

Features

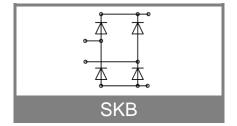
- Sturdy isolated metal baseplate
- Fast-on terminals with solder tips
- Suitable for wave soldering
- High surge current rating
- Blocking voltage of 1600 V
- UL recognized plastic material

Typical Applications*

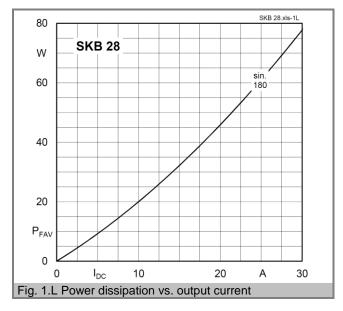
- DC power supply, e.g. for transistorized AC motor controllers
- Battery chargers
- Non-controlled DC motor field supply
- Recommended snubber network: RC: 50 Ω , 0.1 μ F (P_R = 1 W)
- Freely suspended or mounted on insulator
 Painted metal sheet of minimum. 250 x 250 x 1 mm: R_{th(c-a)} = 1,85 K/W

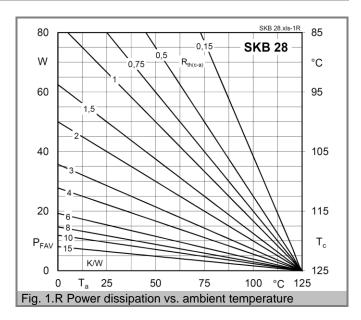
| V _{RSM} V | V_{RRM}, V_{DRM} | $I_D = 32 \text{ A (Inductive Load)}$ $(T_c = 85 \text{ °C)}$ |
|-----------------------|--------------------|--|
| 200 400 | 200 400 | SKB 28/02 SKB 28/04 |
| 800 | 800 | SKB 28/08 |
| 1200 | 1200 | SKB 28/12 |
| 1400 | 1400 | SKB 28/14 |
| 1600 | 1600 | SKB 28/16 |

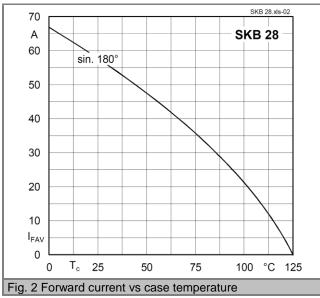
| Symbol | Conditions | Values | Units |
|---|---|---|--|
| I _D | $T_c = 85$ °C (full conduction) $T_a = 45$ °C, isolated ¹⁾ $T_a = 45$ °C, chassis ²⁾ $T_a = 45$ °C, P1A/120 | 30 3 12,8 27 | A A A |
| I _{FSM} | $\begin{split} T_{vj} &= 25 ^{\circ}\text{C} ; 10 \text{ ms} \\ T_{vj} &= 125 ^{\circ}\text{C} ; 10 \text{ ms} \\ T_{vj} &= 25 ^{\circ}\text{C} ; 8,3 \dots 10 \text{ ms} \\ T_{vj} &= 125 ^{\circ}\text{C} ; 8,3 \dots 10 \text{ ms} \end{split}$ | 370 320 685 510 | A A A ² s A ² s |
| $V_F \\ V_{(TO)} \\ r_T \\ I_{RD} \\ t_{rr}$ | $\begin{split} T_{vj} &= 25 ^{\circ}\text{C}, \ I_F = 75 \text{ A} \\ T_{vj} &= 125 ^{\circ}\text{C} \\ T_{vj} &= 125 ^{\circ}\text{C} \\ T_{vj} &= 25 ^{\circ}\text{C} \ ; \ V_{RD} = V_{RRM} \\ T_{vj} &= 125 ^{\circ}\text{C} \ ; \ V_{RD} = V_{RRM} \\ T_{vj} &= 25 ^{\circ}\text{C} \end{split}$ | max. 1,75 max. 0,85 max. 12 200 2 10 | V V mΩ μA mA μs |
| $R_{th(j\text{-}a)}$ $R_{th(j\text{-}c)}$ $R_{th(c\text{-}s)}$ T_{vj} T_{stg} | isolated ¹⁾ chassis ²⁾ per diode total | 15 3 2 0,1 -40 +125 -40 +125 | K/W K/W K/W °C °C |
| V _{isol} M _s M _t | a. c. 50 60 Hz; r.m.s.; 1 s / 1 min. to heatsink M4 to terminal M5 approx. | 3600 / 3000 2 3 66 | V~ Nm Nm g |
| Case | | G 27 | _ |

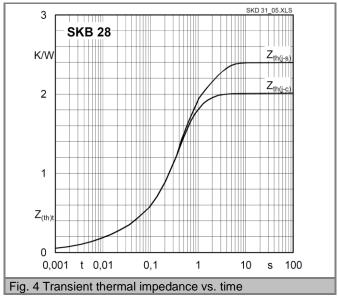


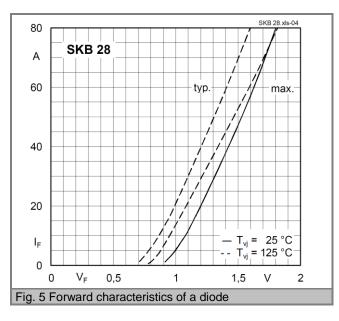
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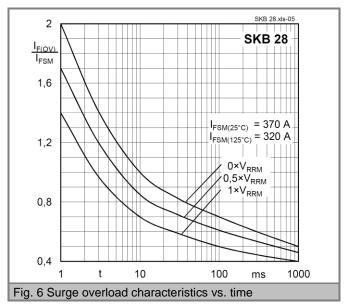


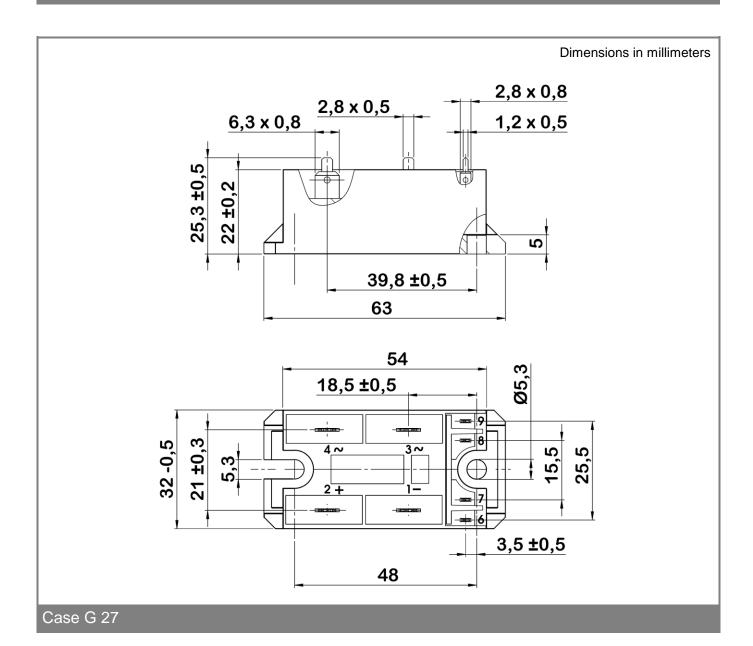












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