SKB 52



SEMIPONT[®] 3

Power Bridge Rectifiers

SKB 52

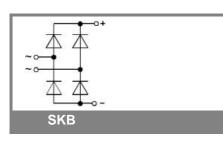
Features

- 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:

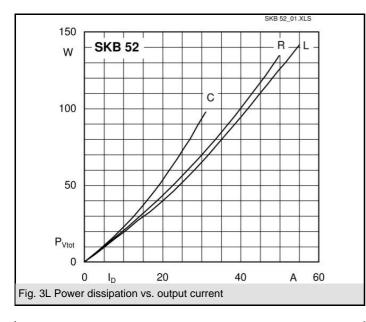
R _{th(s-a)} = 1,8 K/W

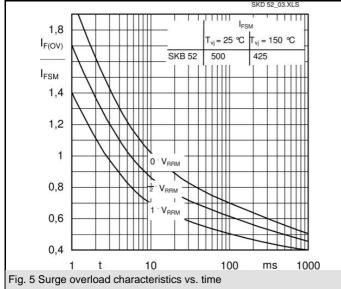


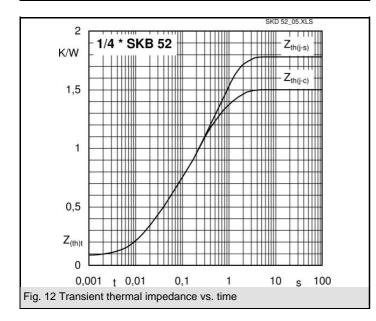
| V _{RSM} | V _{RRM} , V _{DRM} | I _D = 50 A (full conduction) |
|------------------|-------------------------------------|---|
| V | V | (T _c = 99 °C) |
| 400 | 400 | SKB 52/04 |
| 800 | 800 | SKB 52/08 |
| 1200 | 1200 | SKB 52/12 |
| 1400 | 1400 | SKB 52/14 |
| 1600 | 1600 | SKB 52/16 |
| 1800 | 1800 | SKB 52/18 |

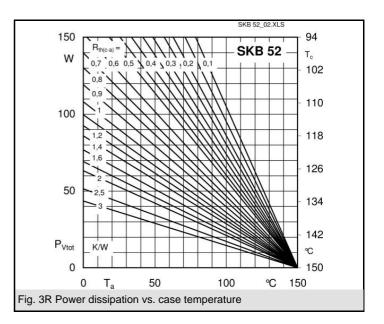
| Symbol | Conditions | Values | Units |
|----------------------|---|---------------|-------|
| I _D | T _c = 85 °C | 60 | А |
| 5 | resistive / inductive load | | |
| | $T_a = 45 \text{ °C}; \text{ isolated } ^1)$ | 9,5 | А |
| | $T_a = 45 \text{ °C}; \text{ chassis }^{2)}$ | 21,5 | А |
| | T _a = 45 °C; P1A/120 (P1A/200) | 40 (45) | А |
| I _{FSM} | T _{vi} = 25 °C; 10 ms | 500 | А |
| 1 OM | T _{vi} = 150 °C; 10 ms | 425 | А |
| i²t | T _{vi} = 25 °C; 8,3 10 ms | 1250 | A²s |
| | T _{vj} = 150 °C; 8,3 10 ms | 900 | A²s |
| V _F | T _{vi} = 25 °C; I _F = 150 A | max. 1,8 | V |
| V _(TO) | $T_{vi} = 150 \text{ °C}$ | max. 0,85 | V |
| r _T | T _{vi} = 150 °C | max. 8 | mΩ |
| I _{RD} | T_{vj}^{i} = 25 °C; V_{DD} = V_{DRM} ; V_{RD} = V_{RRM} | max. 0,5 | mA |
| | $T_{vj} = 150 \text{ °C}; V_{RD} = V_{RRM}$ | 5 | mA |
| R _{th(j-c)} | per diode | 1.5 | K/W |
| τη(j-c) | total | 0,375 | K/W |
| R _{th(c-s)} | total | 0.07 | K/W |
| T _{vj} | | -40 + 150 | °C |
| T _{stg} | | -40 + 125 | °C |
| V _{isol} | a. c. 50 Hz; r.m.s.; 1 s / 1 min. | 3600 (3000) | V |
| M | to heatsink | 5 ± 15% | Nm |
| M, | to terminals | 5 ± 15% | Nm |
| m | | 165 | g |
| Case | | G 35 | |

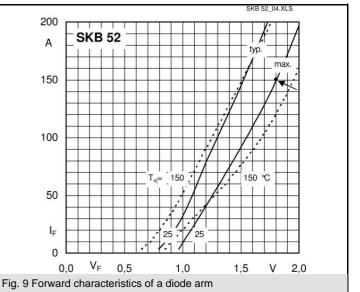
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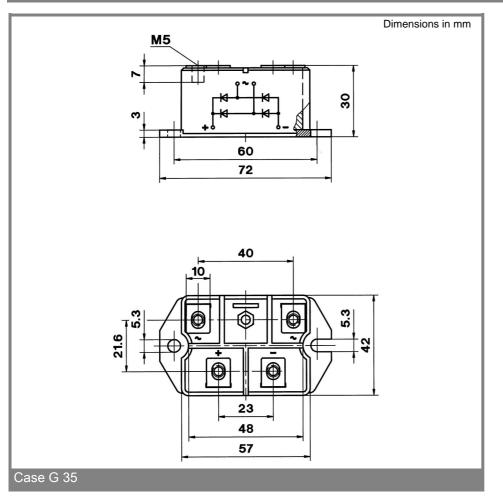








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