



Power Bridge Rectifiers

SKD 60

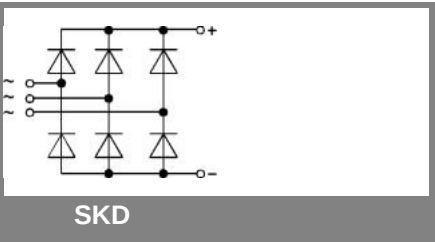
Features

- Robust plastic case with screw terminals
- Large, isolated base plate
- Blocking voltage to 1600 V
- High surge currents
- Three phase bridge rectifier
- Easy chassis mounting
- UL recognized, file no. E 63 532

Typical Applications

- Three phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- Battery charger rectifiers

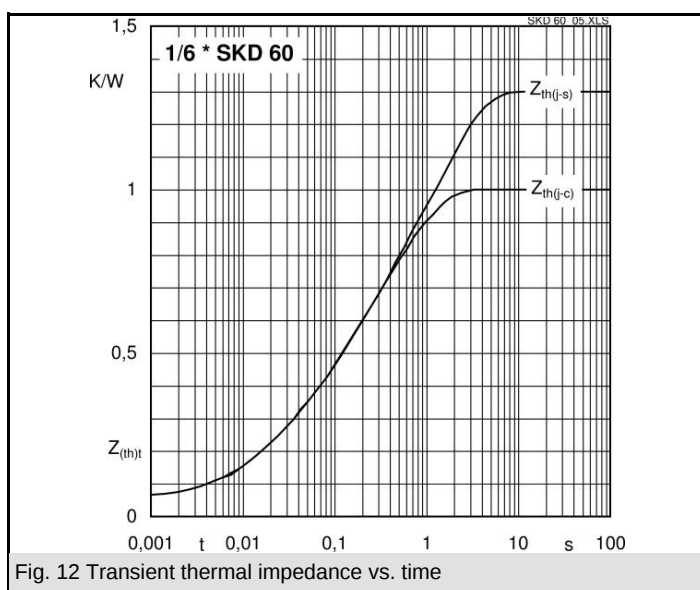
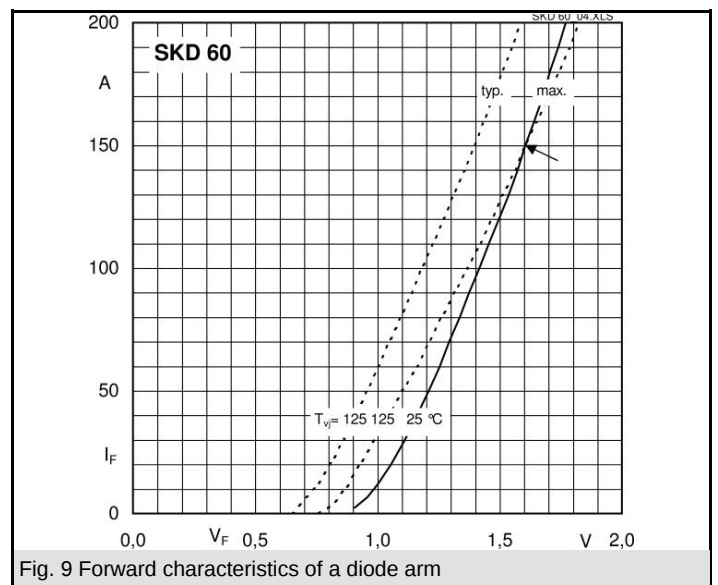
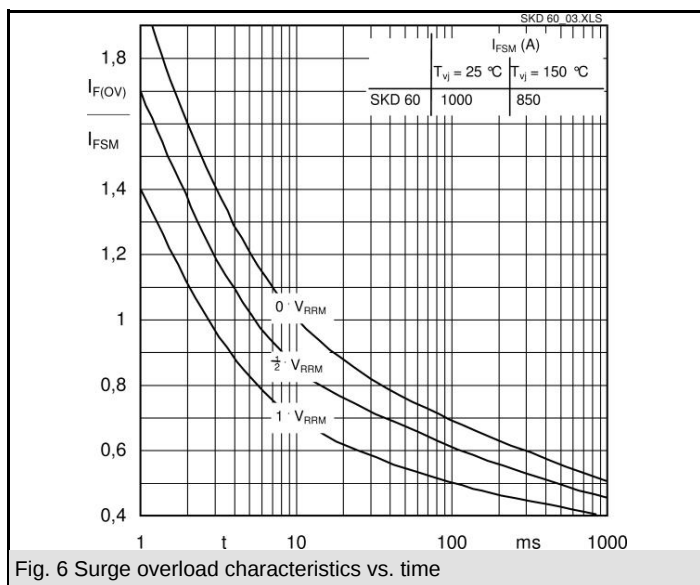
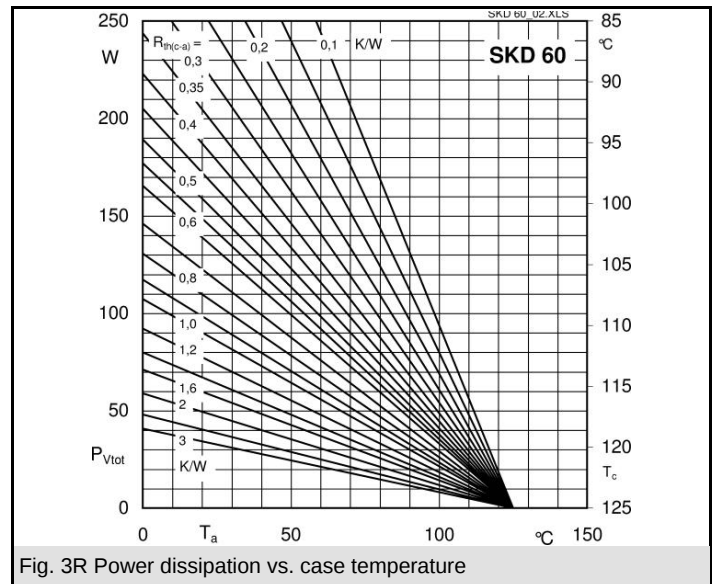
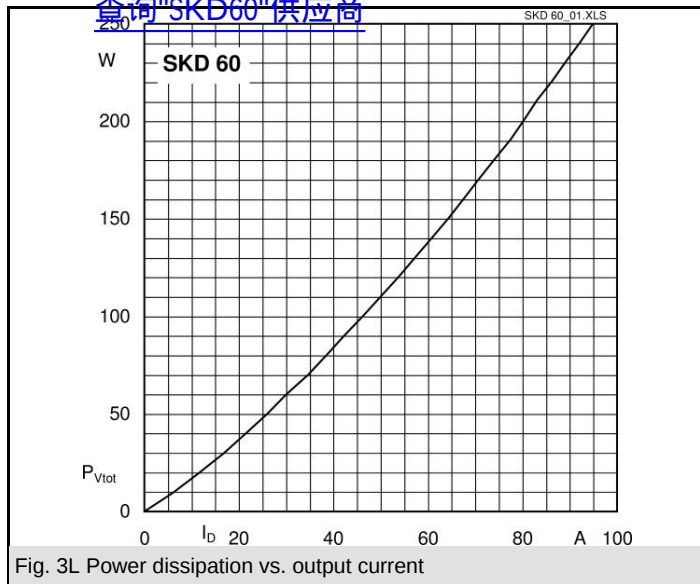
1) Painted metal sheet of minimum  
250 x 250 x 1 mm:  $R_{th(c-a)} = 1,8 \text{ K/W}$



| $V_{RSM}$<br>V | $V_{RRM}, V_{DRM}$<br>V | $I_D = 60 \text{ A (full conduction)}$<br>( $T_c = 102 \text{ }^\circ\text{C}$ ) |
|----------------|-------------------------|----------------------------------------------------------------------------------|
| 400            | 400                     | SKD 60/04                                                                        |
| 800            | 800                     | SKD 60/08                                                                        |
| 1200           | 1200                    | SKD 60/12                                                                        |
| 1400           | 1400                    | SKD 60/14                                                                        |
| 1600           | 1600                    | SKD 60/16                                                                        |

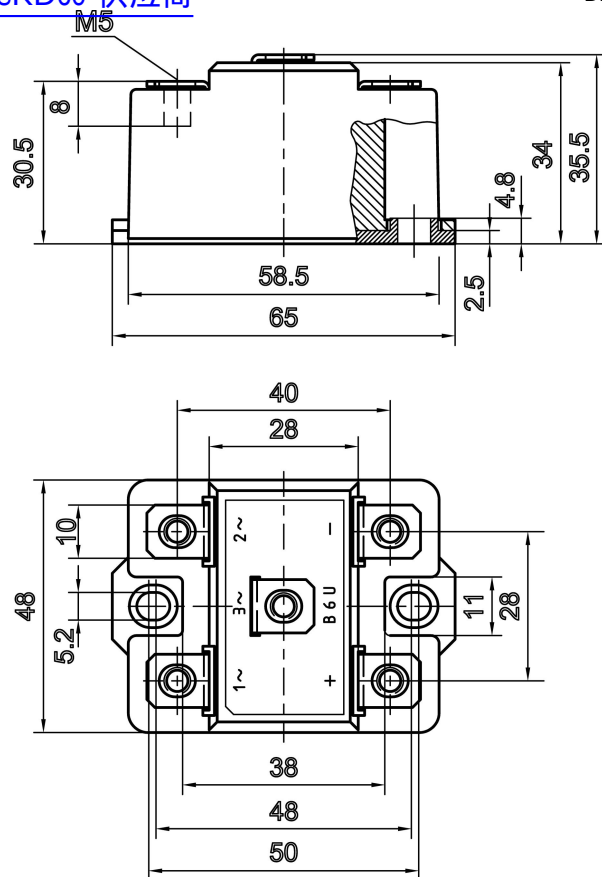
| Symbol        | Conditions                                                                     | Values         | Units            |
|---------------|--------------------------------------------------------------------------------|----------------|------------------|
| $I_D$         | $T_c = 85 \text{ }^\circ\text{C}$                                              | 92             | A                |
|               | inductive load                                                                 |                | A                |
|               | $T_a = 45 \text{ }^\circ\text{C}$ , chassis <sup>1)</sup>                      | 21             | A                |
|               | $T_a = 45 \text{ }^\circ\text{C}$ ; P13A/125 (R4A/120)                         | 27 (30)        | A                |
|               | $T_a = 35 \text{ }^\circ\text{C}$ , P1A/120F (P1A/200F)                        | 85 (112)       | A                |
| $I_{FSM}$     | $T_{vj} = 25 \text{ }^\circ\text{C}$ ; 10 ms                                   | 1000           | A                |
|               | $T_{vj} = 125 \text{ }^\circ\text{C}$ ; 10 ms                                  | 850            | A                |
| $i^2t$        | $T_{vj} = 25 \text{ }^\circ\text{C}$ ; 8,3 ... 10 ms                           | 5000           | A <sup>2</sup> s |
|               | $T_{vj} = 125 \text{ }^\circ\text{C}$ ; 8,3 ... 10 ms                          | 3600           | A <sup>2</sup> s |
|               |                                                                                |                |                  |
| $V_F$         | $T_{vj} = 25 \text{ }^\circ\text{C}$ ; $I_F = 150 \text{ A}$                   | max. 1,6       | V                |
| $V_{(TO)}$    | $T_{vj} = 125 \text{ }^\circ\text{C}$                                          | max. 0,85      | V                |
| $r_T$         | $T_{vj} = 125 \text{ }^\circ\text{C}$                                          | max. 5         | mΩ               |
| $I_{RD}$      | $T_{vj} = 25 \text{ }^\circ\text{C}$ ; $V_{DD} = V_{DRM}$ ; $V_{RD} = V_{RRM}$ | max. 0,5       | mA               |
|               | $T_{vj} = 125 \text{ }^\circ\text{C}$ ; $V_{RD} = V_{RRM}$                     | 2              | mA               |
| $R_{th(j-c)}$ | per diode                                                                      | 1              | K/W              |
|               | total                                                                          | 0,167          | K/W              |
| $R_{th(c-s)}$ | total                                                                          | 0,05           | K/W              |
| $T_{vj}$      |                                                                                | - 40 ... + 125 | °C               |
| $T_{stg}$     |                                                                                | - 40 ... + 125 | °C               |
| $V_{isol}$    | a. c. 50 Hz; r.m.s.; 1 s / 1 min.                                              | 3600 ( 3000 )  | V                |
| $M_s$         | to heatsink                                                                    | 5 ± 15 %       | Nm               |
| $M_t$         | to terminals                                                                   | 5 ± 15 %       | Nm               |
| m             |                                                                                | 165            | g                |
| Case          |                                                                                | G 18           |                  |

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Dimensions in mm



Case G 18

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