

3~phase

## SKDI 26

Preliminary Data

### Features

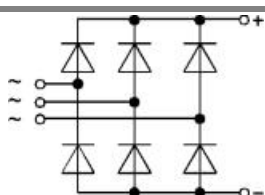
- In-line isolated metal case with wired connectors
- Heat sink mounting not on the marking side
- Blocking voltage to 1600V
- High surge current
- Easy mounting
- UL recognized, file no. E 63 532

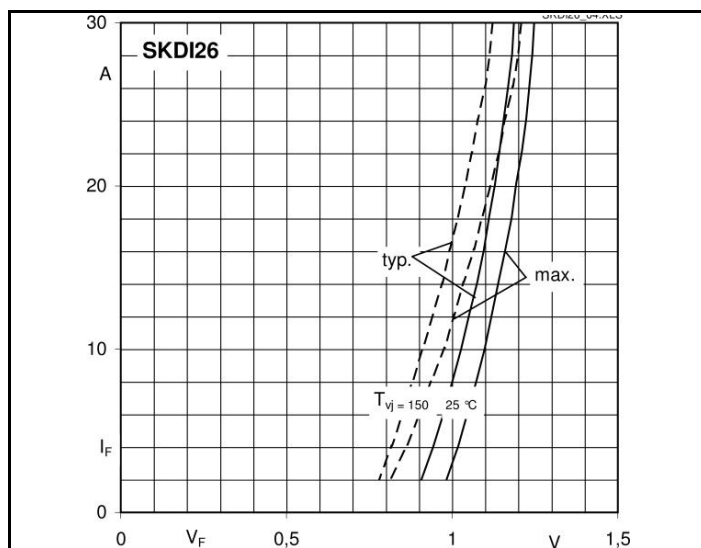
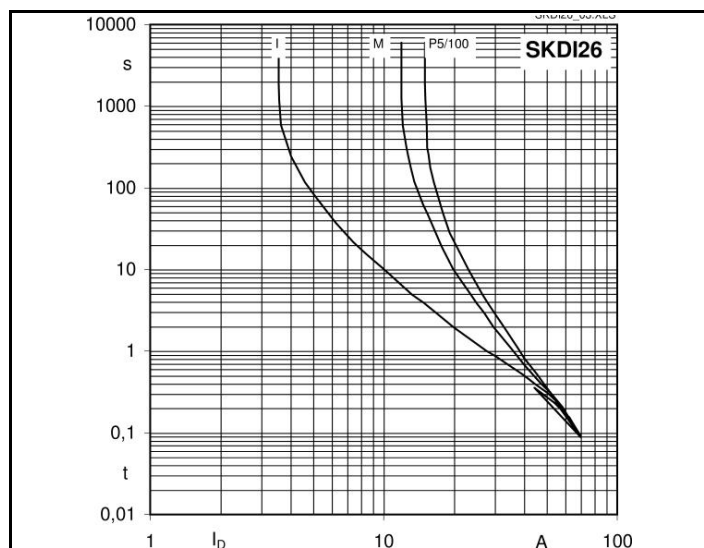
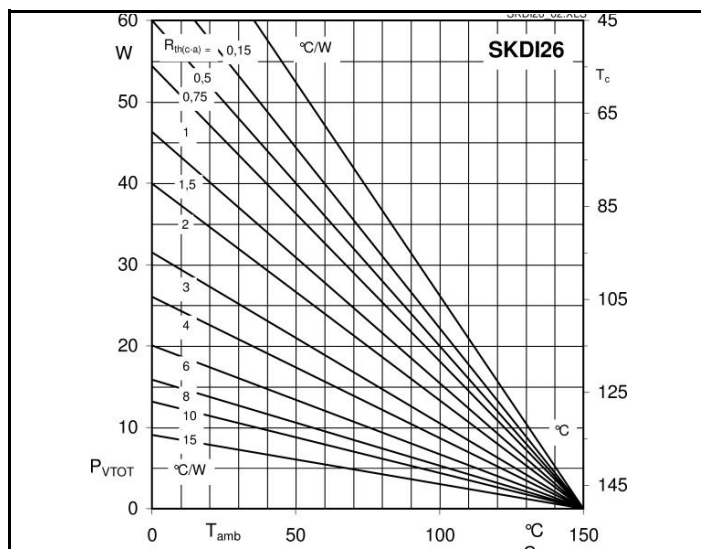
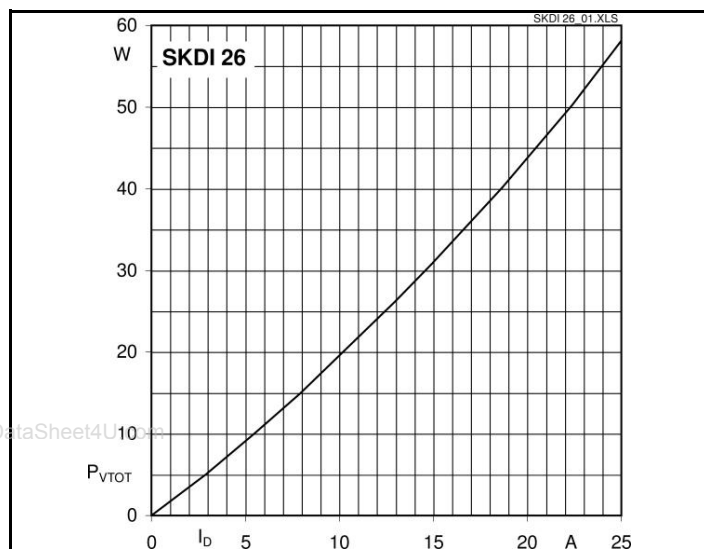
### Typical Applications

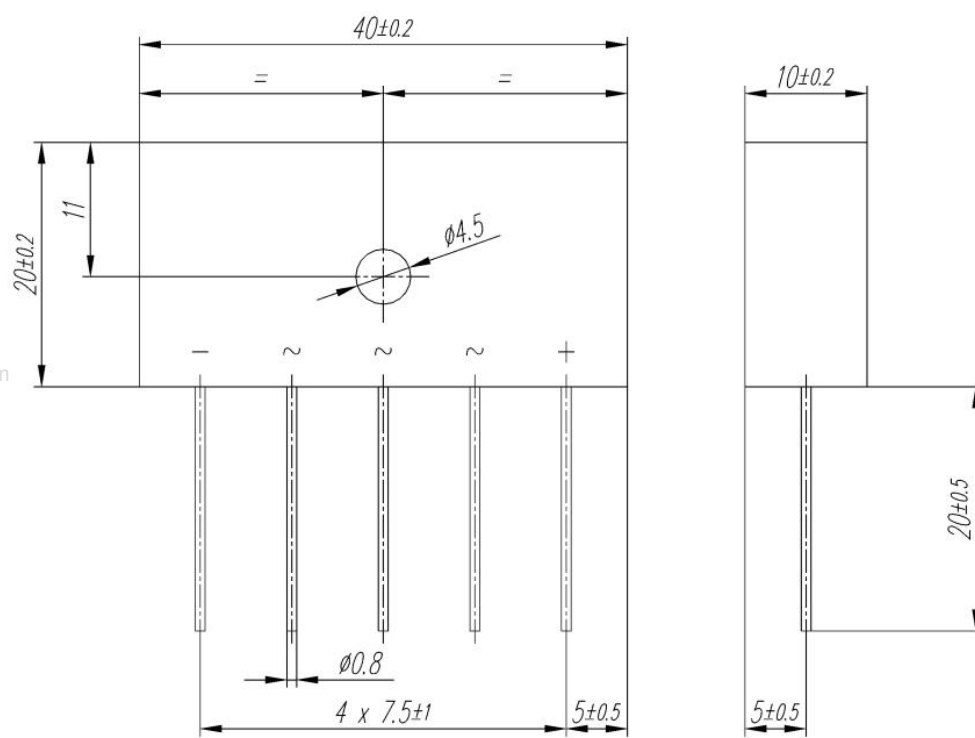
- Three phase rectifier for power supplies
- Input rectifier for variable frequency drives
- Rectifier for DC motor field supplies
- Battery charger
- Recommended snubber network:  
RC: 50Ω, 0,1μF

| $V_{RSM}, V_{RRM}$<br>V | $V_{VRMS}$<br>V | $I_D = 20 \text{ A } (T_A = 50^\circ \text{C})$<br>Types | $C_{max}$<br>μF | $R_{min}$<br>Ω |
|-------------------------|-----------------|----------------------------------------------------------|-----------------|----------------|
| 200                     | 60              | SKDI 26/02                                               | 25000           | 0,15           |
| 400                     | 125             | SKDI 26/04                                               | 12200           | 0,3            |
| 600                     | 185             | SKDI 26/06                                               | 8300            | 0,5            |
| 800                     | 250             | SKDI 26/08                                               | 6100            | 0,7            |
| 1000                    | 310             | SKDI 26/10                                               | 5000            | 0,85           |
| 1200                    | 380             | SKDI 26/12                                               | 4000            | 1              |
| 1400                    | 440             | SKDI 26/14                                               | 3500            | 1,2            |
| 1600                    | 500             | SKDI 26/16                                               | 3000            | 1,5            |

| Symbol        | Conditions                                                          | Values     | Units            |
|---------------|---------------------------------------------------------------------|------------|------------------|
| $I_D$         | $T_a = 50^\circ \text{C}$ , isolated                                | 4          | A                |
|               | $T_a = 50^\circ \text{C}$ , P1A/120                                 | 20         | A                |
| $I_{DCL}$     | $T_a = 50^\circ \text{C}$ , isolated                                | 4          | A                |
|               | $T_a = 50^\circ \text{C}$ , P1A/120                                 | 20         | A                |
|               | $T_a = ^\circ \text{C}$ ,                                           |            | A                |
| $I_{FSM}$     | $T_{vj} = 25^\circ \text{C}$ , 10 ms                                | 370        | A                |
|               | $T_{vj} = 150^\circ \text{C}$ , 10 ms                               | 320        | A                |
| $i^2t$        | $T_{vj} = 25^\circ \text{C}$ , 8,3 ... 10 ms                        | 680        | A <sup>2</sup> s |
|               | $T_{vj} = 150^\circ \text{C}$ , 8,3 ... 10 ms                       | 500        | A <sup>2</sup> s |
| $V_F$         | $T_{vj} = 25^\circ \text{C}$ , $I_F = 12,5 \text{ A}$               | max. 1,1   | V                |
| $V_{(TO)}$    | $T_{vj} = 150^\circ \text{C}$                                       | max. 0,85  | V                |
| $r_T$         | $T_{vj} = 150^\circ \text{C}$                                       | max. 12    | mΩ               |
| $I_{RD}$      | $T_{vj} = 25^\circ \text{C}$ , $V_{RD} = V_{RRM} = 1600 \text{ V}$  | 300        | μA               |
|               | $T_{vj} = ^\circ \text{C}$ , $V_{RD} = V_{RRM} \geq V$              |            | μA               |
| $I_{RD}$      | $T_{vj} = 150^\circ \text{C}$ , $V_{RD} = V_{RRM} = 1600 \text{ V}$ | 5          | mA               |
|               | $T_{vj} = ^\circ \text{C}$ , $V_{RD} = V_{RRM} \geq V$              |            | mA               |
| $t_{rr}$      | $T_{vj} = 25^\circ \text{C}$                                        | 10         | μs               |
| $f_G$         |                                                                     | 2000       | Hz               |
| $R_{th(j-a)}$ | isolated                                                            | 8          | K/W              |
|               | chassis                                                             | 5,1        | K/W              |
| $R_{th(j-c)}$ | total                                                               | 4,1        | K/W              |
| $R_{th(c-s)}$ | total                                                               | 0,15       | K/W              |
| $T_{vj}$      |                                                                     | -50...+150 | °C               |
| $T_{stg}$     |                                                                     | -50...+150 | °C               |
| $V_{isol}$    | a.c. 50..60Hz; r.m.s.; 1s/1min                                      | 3000/2500  | V~               |
| $M_s$         | to heatsink                                                         | 2±10%      | Nm               |
| $M_t$         |                                                                     |            | Nm               |
| $a$           |                                                                     |            | m/s <sup>2</sup> |
| $w$           |                                                                     | 35         | g                |
| $F_u$         |                                                                     | 40         | A                |
| Case          |                                                                     |            |                  |







This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.