

**SEMIPACK® 1****Rectifier Diode Modules****SKKD 26****Features**

- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

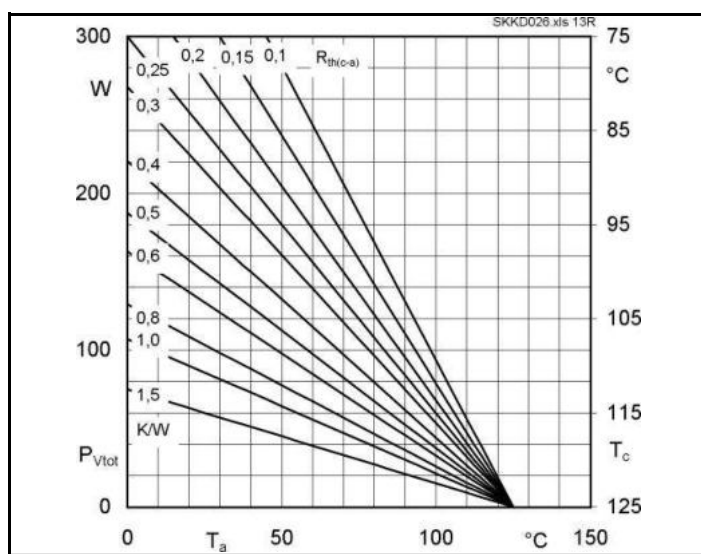
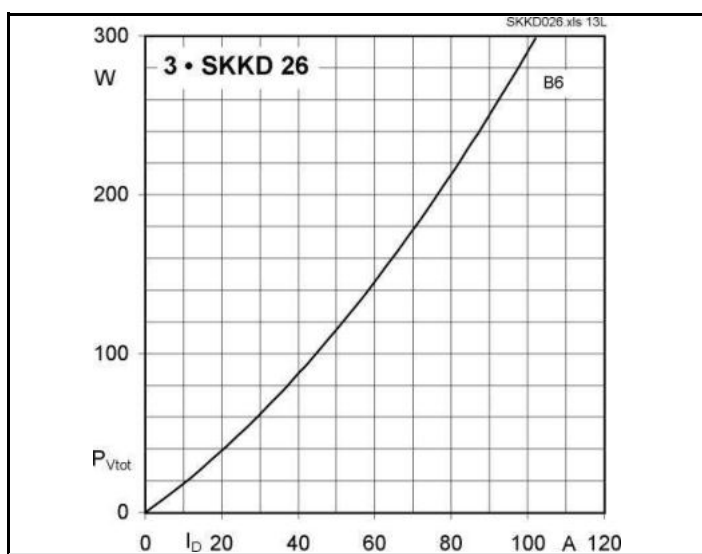
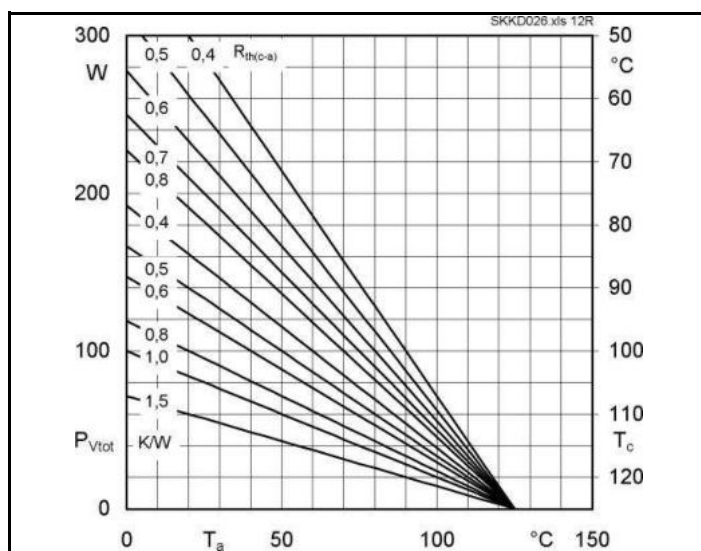
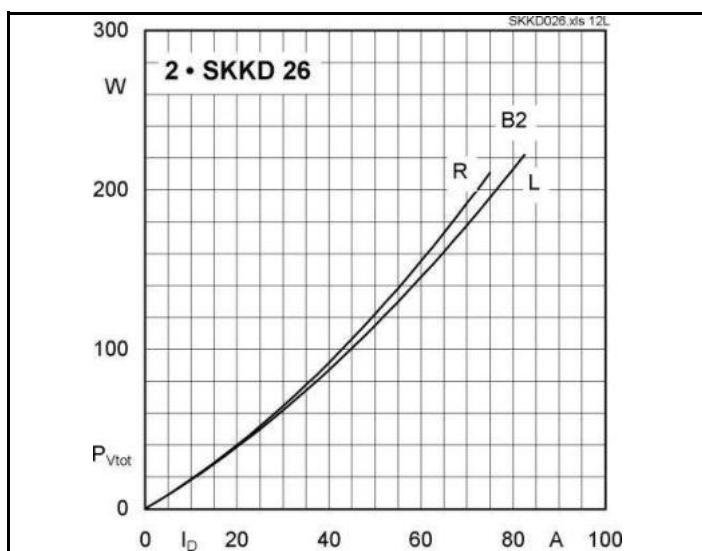
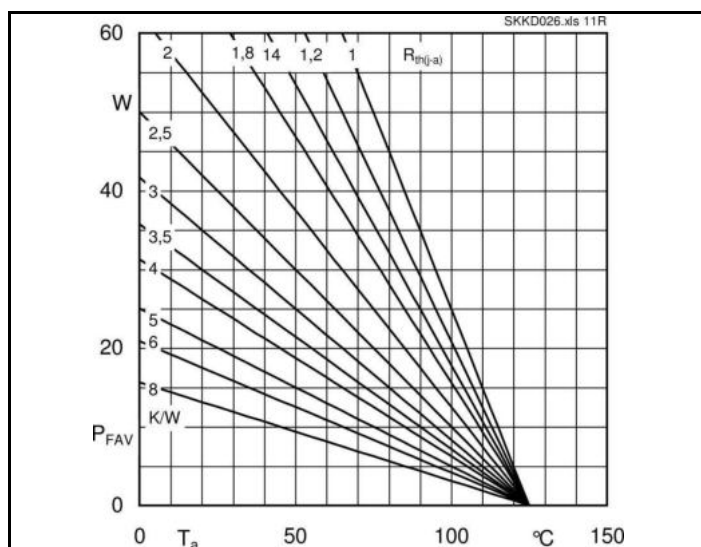
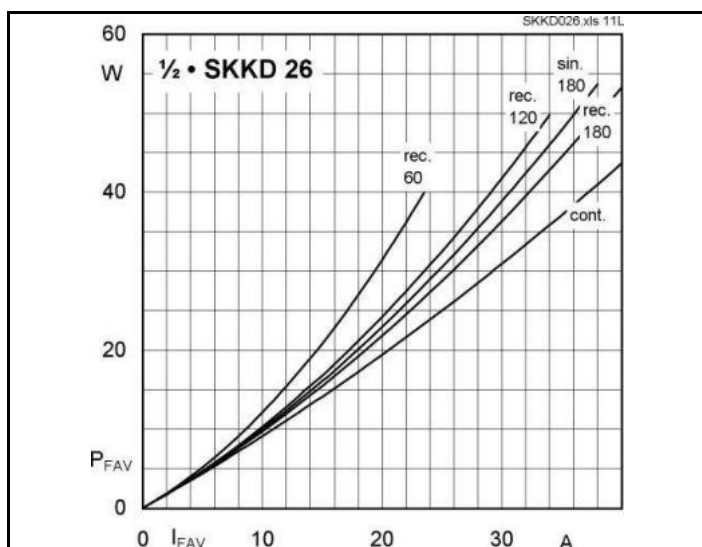
**Typical Applications\***

- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors
- SKKE: Free-wheeling diodes

| $V_{RSM}$<br>V | $V_{RRM}$<br>V | $I_{FRMS} = 60$ A (maximum value for continuous operation)<br>$I_{FAV} = 26$ A (sin. 180; $T_c = 93$ °C) |  |  |
|----------------|----------------|----------------------------------------------------------------------------------------------------------|--|--|
| 1300           | 1200           | SKKD 26/12                                                                                               |  |  |
| 1500           | 1400           | SKKD 26/14                                                                                               |  |  |
| 1700           | 1600           | SKKD 26/16                                                                                               |  |  |

| Symbol        | Conditions                            | Values         | Units |
|---------------|---------------------------------------|----------------|-------|
| $I_{FAV}$     | sin. 180; $T_c = 85$ (100) °C         | 31 (21)        | A     |
| $I_D$         | P3/120; $T_a = 45$ °C; B2 / B6        | 44 / 48        | A     |
|               | P3/180; $T_a = 45$ °C; B2 / B6        | 53 / 59        | A     |
| $I_{FSM}$     | $T_{vj} = 25$ °C; 10 ms               | 550            | A     |
|               | $T_{vj} = 125$ °C; 10 ms              | 480            | A     |
| $i^2t$        | $T_{vj} = 25$ °C; 8,3 ... 10 ms       | 1500           | A²s   |
|               | $T_{vj} = 125$ °C; 8,3 ... 10 ms      | 1150           | A²s   |
| $V_F$         | $T_{vj} = 25$ °C; $I_F = 75$ A        | max. 1,35      | V     |
| $V_{(TO)}$    | $T_{vj} = 125$ °C                     | max. 0,85      | V     |
| $r_T$         | $T_{vj} = 125$ °C                     | max. 6         | mΩ    |
| $I_{RD}$      | $T_{vj} = 125$ °C; $V_{RD} = V_{RRM}$ | max. 3         | mA    |
| $R_{th(j-c)}$ | per diode / per module                | 1 / 0,5        | K/W   |
| $R_{th(c-s)}$ | per diode / per module                | 0,2 / 0,1      | 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                          | 3 ± 15 %       | Nm    |
| $a$           |                                       | 5 * 9,81       | m/s²  |
| $m$           | approx.                               | 95             | g     |
| Case          |                                       | A 10           |       |

**SKKD**



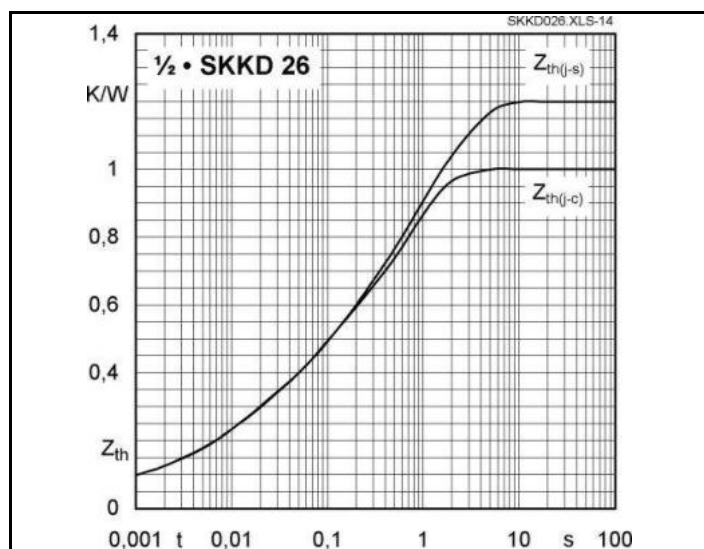


Fig. 14 Transient thermal impedance vs. time

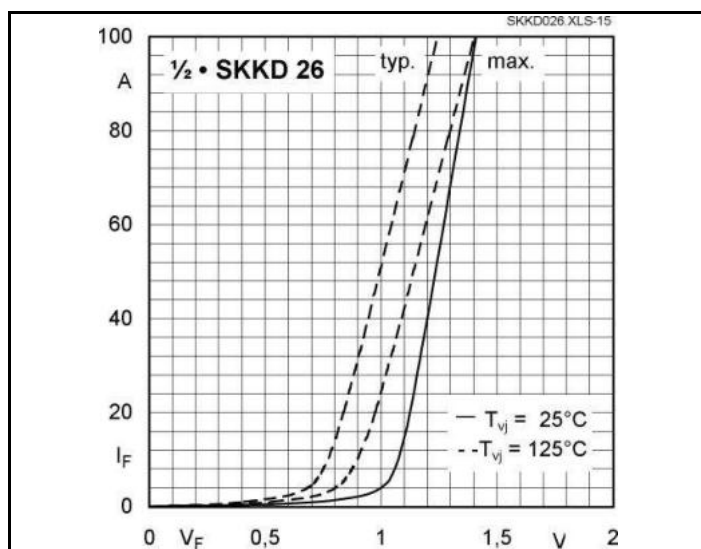


Fig. 15 Forward characteristics

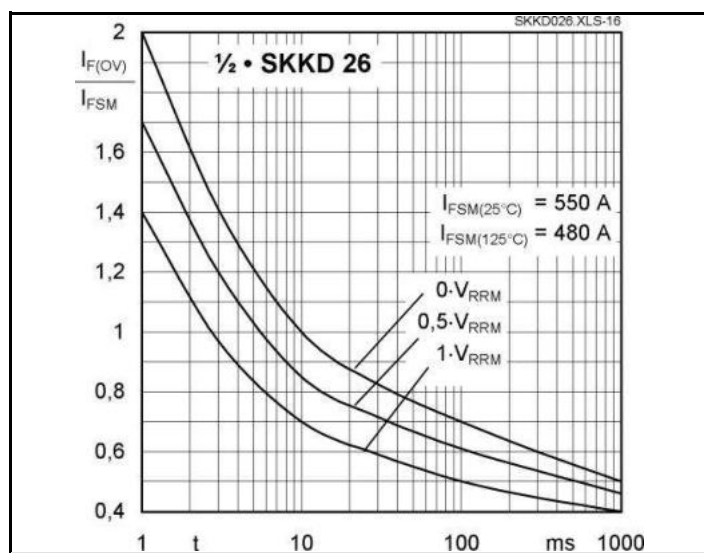
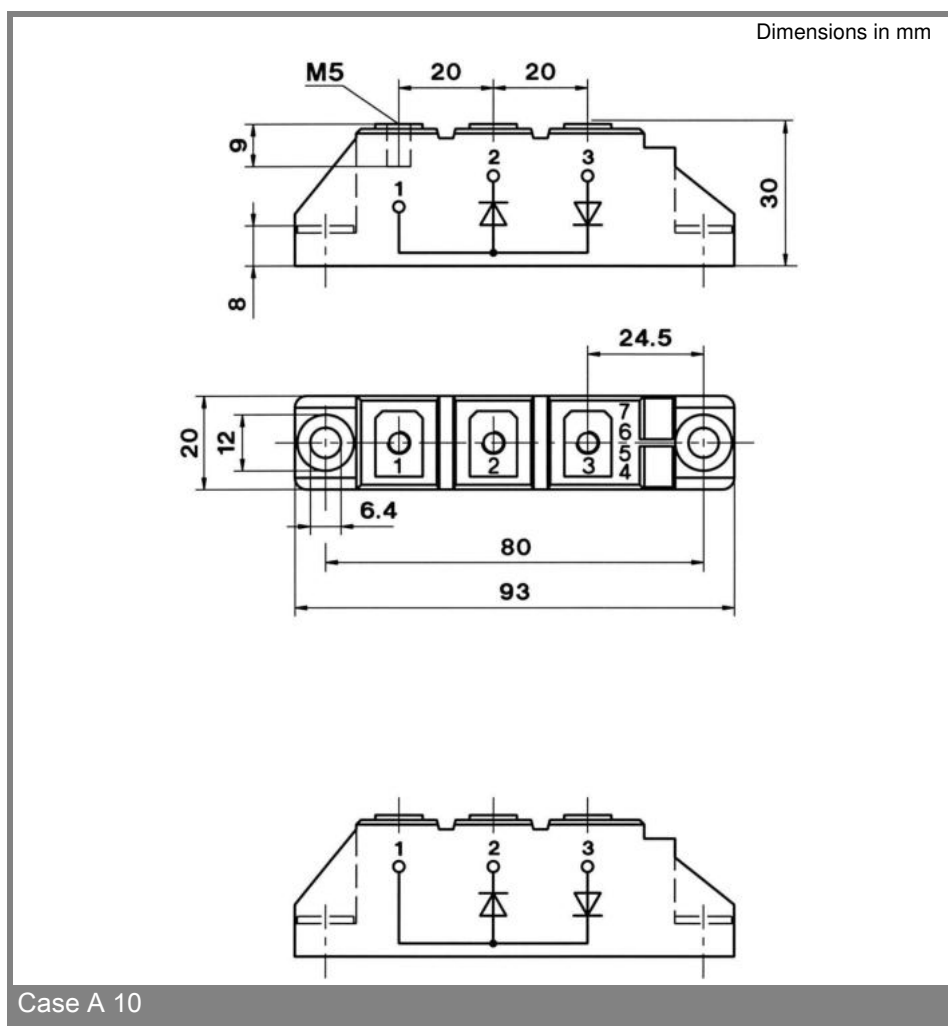


Fig. 16 Surge overload current vs. time



\* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our personal.