SKKD 700



SEMIPACK® 5

Rectifier Diode Modules

SKKD 700

Features

- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precisious metal pressure contacts for high reliability
- UL recognized, file no. E 63 532

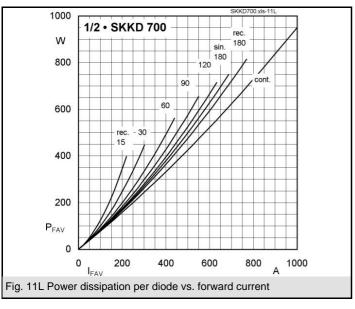
Typical Applications

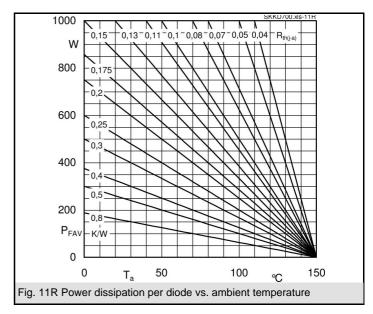
- Uncontrolled rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- 1) The screws must be lubricated

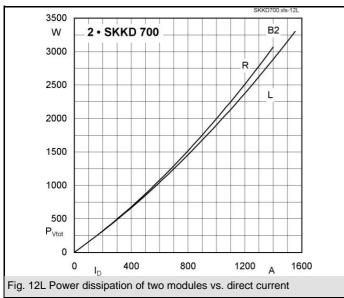
| V _{RSM} | V_{RRM} | I _{FRMS} = 1100 A (maximum value for continuous operation) | | |
|------------------|-----------|---|--|--|
| V | V | I _{FAV} = 700 A (sin. 180; T _c = 100 °C) | | |
| 900 | 800 | SKKD 700/08 | | |
| 1300 | 1200 | SKKD 700/12 | | |
| 1500 | 1400 | SKKD 700/14 | | |
| 1700 | 1600 | SKKD 700/16 | | |
| 1900 | 1800 | SKKD 700/18 | | |
| 2100 | 2000 | SKKD 700/20 | | |
| 2300 | 2200 | SKKD 700/22 | | |

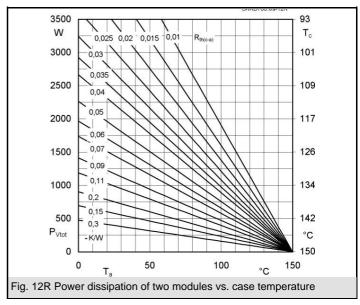
| Symbol | Conditions | Values | Units |
|----------------------|--|-------------------------|-------|
| I _{FAV} | sin. 180; T _c = 100 °C | 700 | А |
| I _{FSM} | T _{vi} = 25 °C; 10 ms | 25000 | Α |
| | T _{vi} = 125 °C; 10 ms | 22000 | Α |
| i²t | T _{vi} = 25 °C; 8,3 10 ms | 3125000 | A²s |
| | T _{vj} = 125 °C; 8,3 10 ms | 2420000 | A²s |
| V _F | T _{vi} = 25 °C; I _F = 2000 A | max. 1,3 | V |
| V _(TO) | T _{vi} = 150 °C | max. 0,75 | V |
| r _T | T _{vi} = 150 °C | max. 0,2 | mΩ |
| I_{RD} | $T_{vj} = 150 ^{\circ}\text{C}; V_{RD} = V_{RRM}$ | max. 20 | mA |
| R _{th(j-c)} | cont.; per diode / per module | 0,062 / 0,031 | K/W |
| | sin. 180; per diode / per module | 0,065 / 0,0325 | K/W |
| | rec. 120; per diode / per module | 0,07 / 0,035 | |
| $R_{th(c-s)}$ | per diode / per module | 0,02 / 0,01 | K/W |
| T _{vj} | | - 40 + 150 | °C |
| T _{stg} | | - 40 + 130 | °C |
| V _{isol} | a. c. 50 Hz; r.m.s.; 1 s / 1 min. | 3600 / 3000 | V~ |
| M _s | to heatsink | 5 ± 15 % | Nm |
| Mt | to terminals | 12 ± 15 % ¹⁾ | Nm |
| a | | 5 * 9,81 | m/s² |
| m | approx. | 1420 | g |
| Case | | A 75a | |
| | | | |
| | | | |

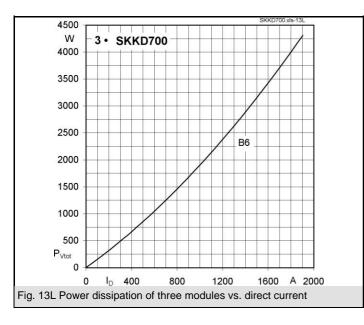


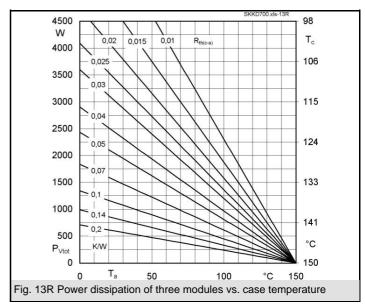




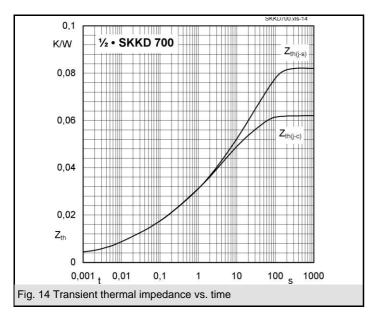


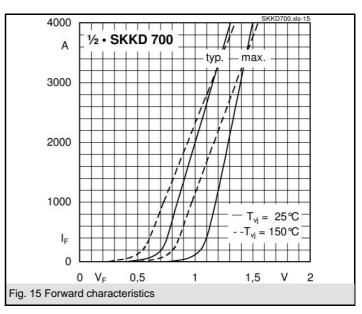


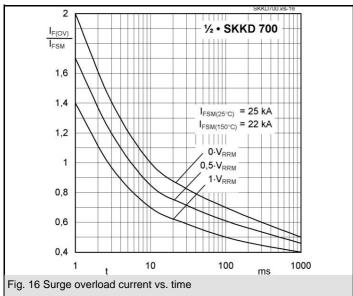


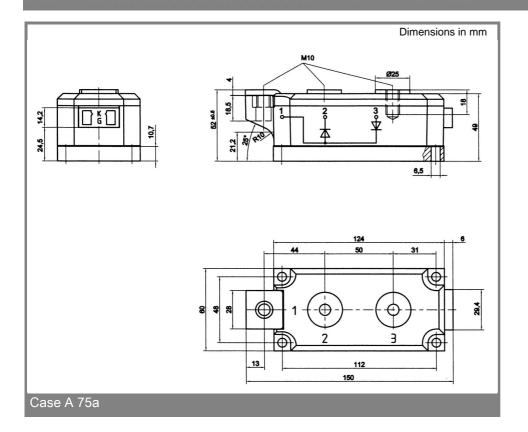


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