

# SEMIPACK<sup>®</sup> 5

Rectifier Diode Modules

#### **SKKD 700**

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

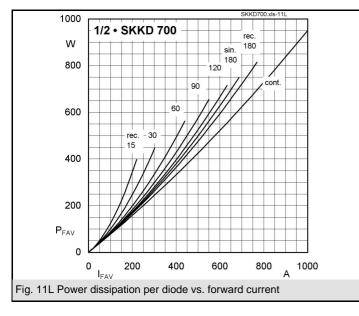
#### **Typical Applications**

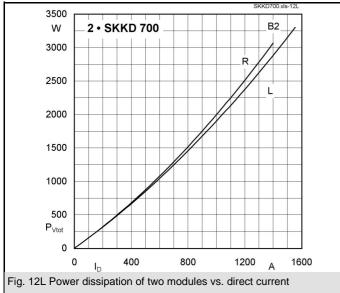
- Uncontrolled rectifiers for AC/AC converters
- Line rectifiers for transistorized
  AC motor controllers
- 1) The screws must be lubricated

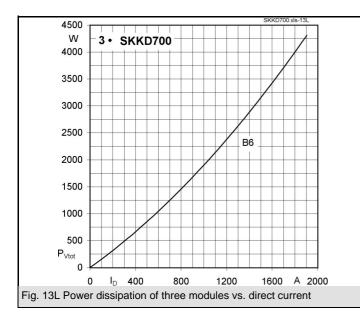
V <sub>RSM</sub>	V <sub>RRM</sub>	I <sub>FRMS</sub> = 1100 A (maximum value for continuous operation)		
V	V	I <sub>FAV</sub> = 700 A (sin. 180; T <sub>c</sub> = 100 °C)		
900	800	SKKD 700/08		
1300	1200	SKKD 700/12		
1500	1400	SKKD 700/14		
1700	1600	SKKD 700/16		
1900	1800	SKKD 700/18		
2100	2000	SKKD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

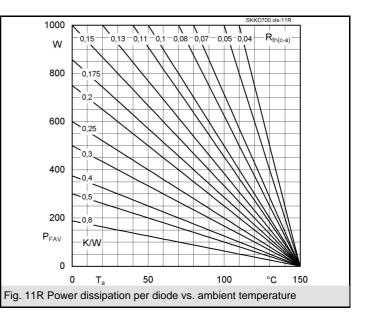
Symbol	Conditions	Values	Units
I <sub>FAV</sub>	sin. 180; T <sub>c</sub> = 100 °C	700	А
I <sub>FSM</sub>	T <sub>vj</sub> = 25 °C; 10 ms	25000	A
	T <sub>vi</sub> = 125 °C; 10 ms	22000	А
i²t	T <sub>vj</sub> = 25 °C; 8,3 10 ms	3125000	A²s
	T <sub>vj</sub> = 125 °C; 8,3 10 ms	2420000	A²s
V <sub>F</sub>	T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

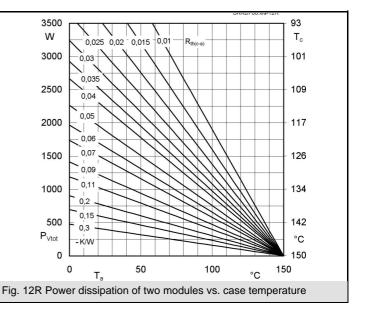


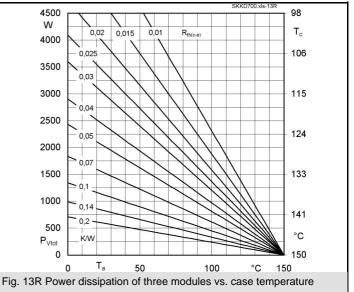


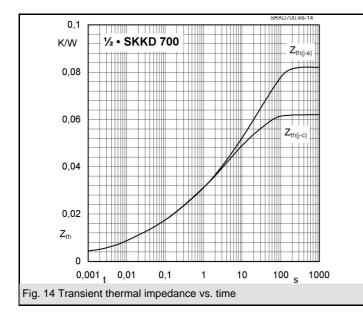


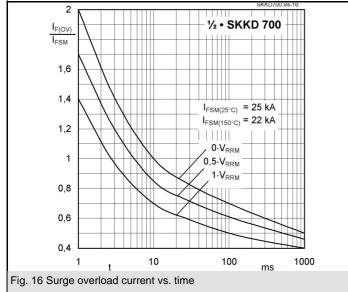


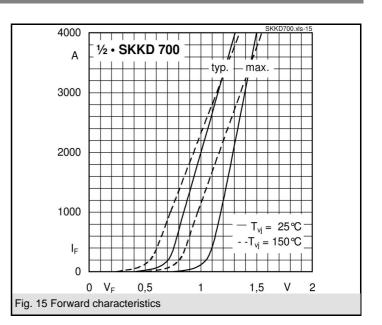


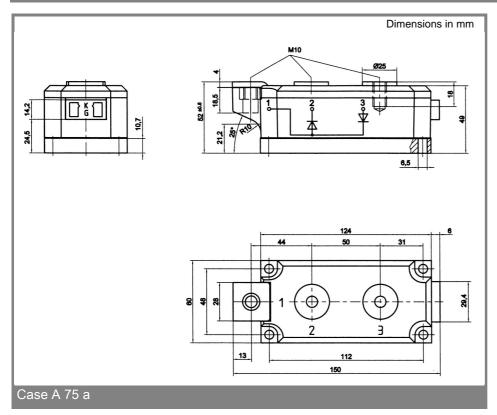












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