

SEMIPACK[®] 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

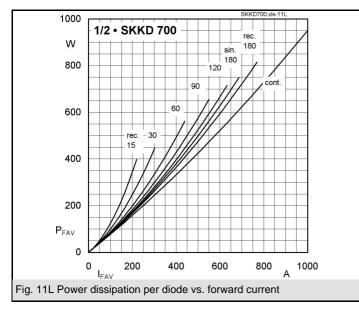
Typical Applications

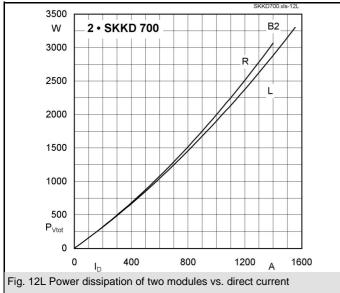
- Uncontrolled rectifiers for AC/AC converters
- Line rectifiers for transistorized
 AC motor controllers
- 1) The screws must be lubricated

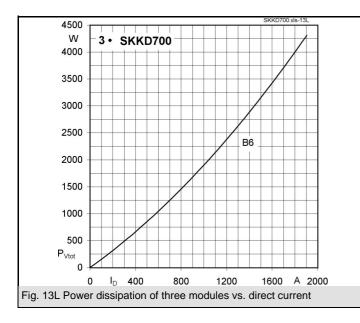
V _{RSM}	V _{RRM}	I _{FRMS} = 1100 A (maximum value for continuous operation)		
V	V	I _{FAV} = 700 A (sin. 180; T _c = 100 °C)		
900	800	SKKD 700/08		
1300	1200	SKKD 700/12		
1500	1400	SKKD 700/14		
1700	1600	SKKD 700/16		
1900	1800	SKKD 700/18		
2100	2000	SKKD 700/20		
2300	2200	SKKD 700/22		

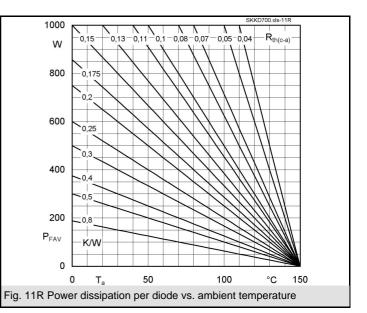
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 100 °C	700	А
I _{FSM}	T _{vj} = 25 °C; 10 ms	25000	A
	T _{vi} = 125 °C; 10 ms	22000	А
i²t	T _{vj} = 25 °C; 8,3 10 ms	3125000	A²s
	T _{vj} = 125 °C; 8,3 10 ms	2420000	A²s
V _F	T _{vi} = 25 °C; I _F = 2000 A	max. 1,3	V
V _(TO)	T _{vi} = 150 °C	0,75	V
r _T	T _{vj} = 150 °C	0,2	mΩ
I _{RD}	T _{vj} = 150 °C; V _{RD} = V _{RRM}	max. 20	mA
R _{th(j-c)}	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 _{th(c-s)}	per thyristor / per module	0,02 / 0,01	K/W
T _{vi}		- 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	

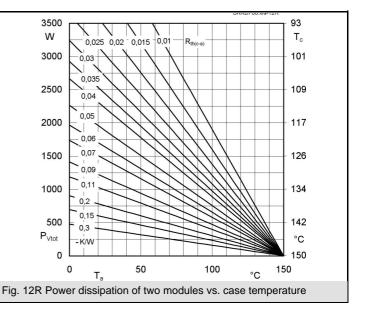


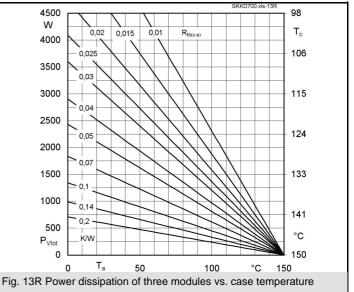


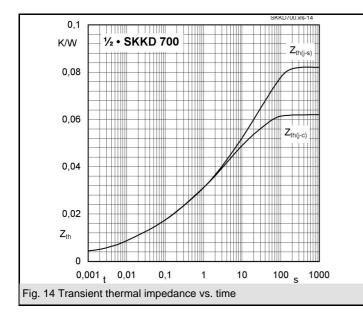


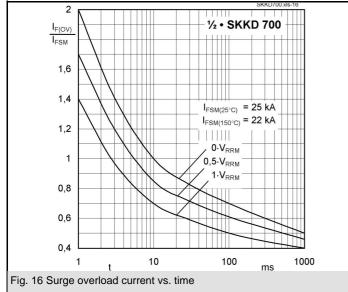


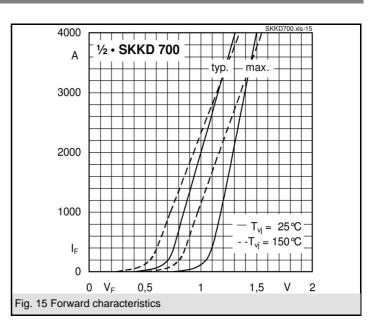


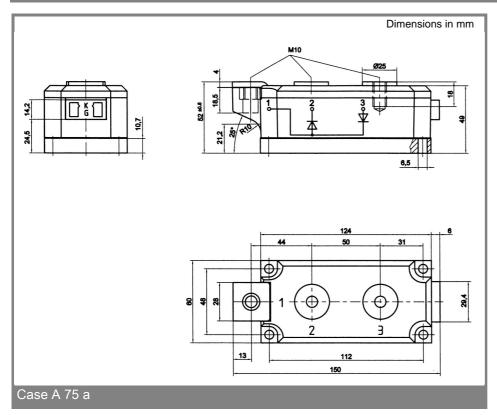












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