



SEMIPACK® 5

Rectifier Diode Modules

SKKD 700

Features

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

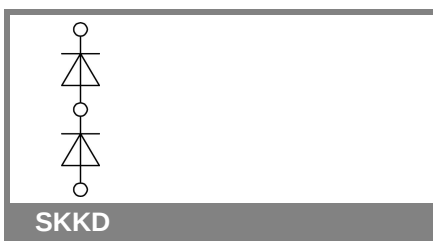
Typical Applications

- Uncontrolled rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers

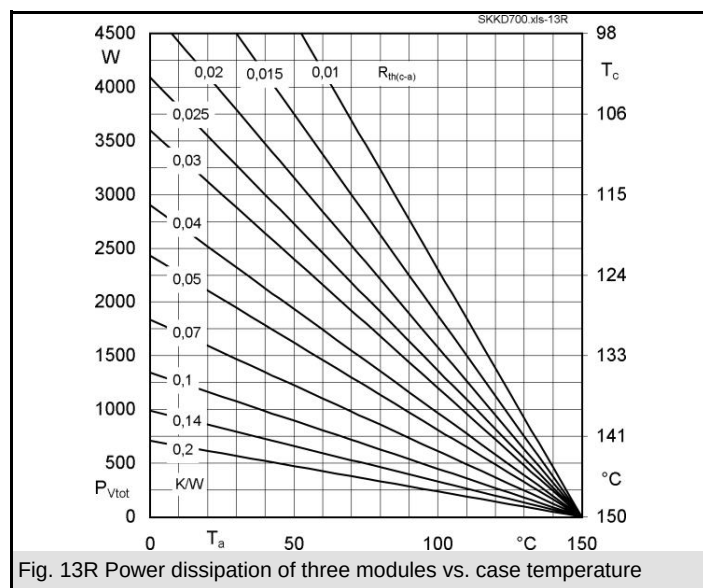
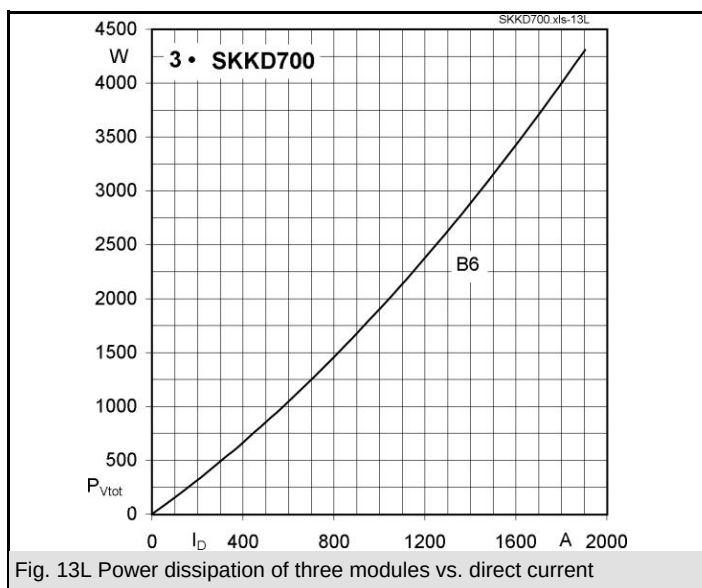
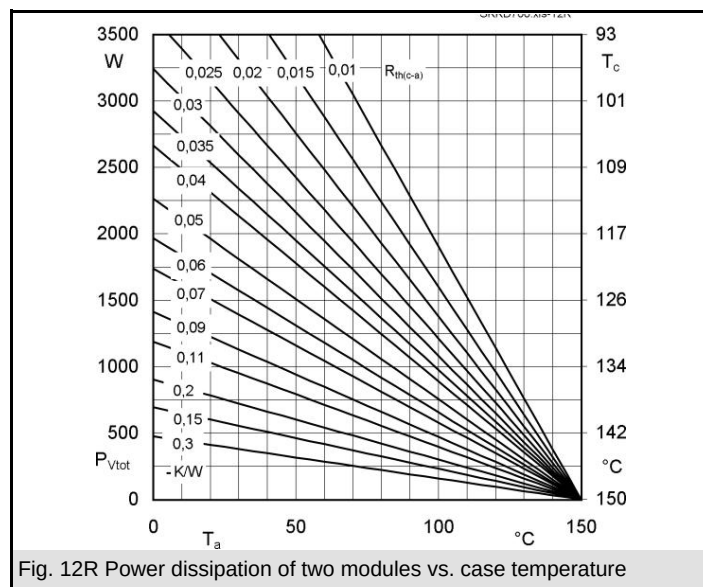
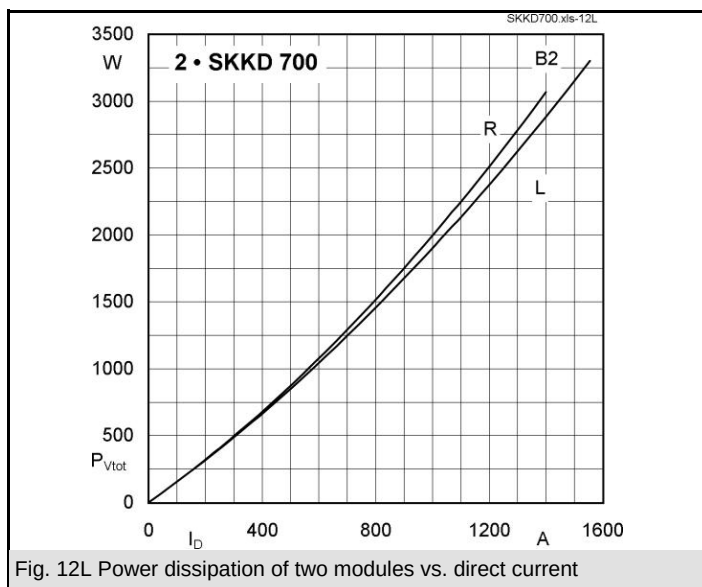
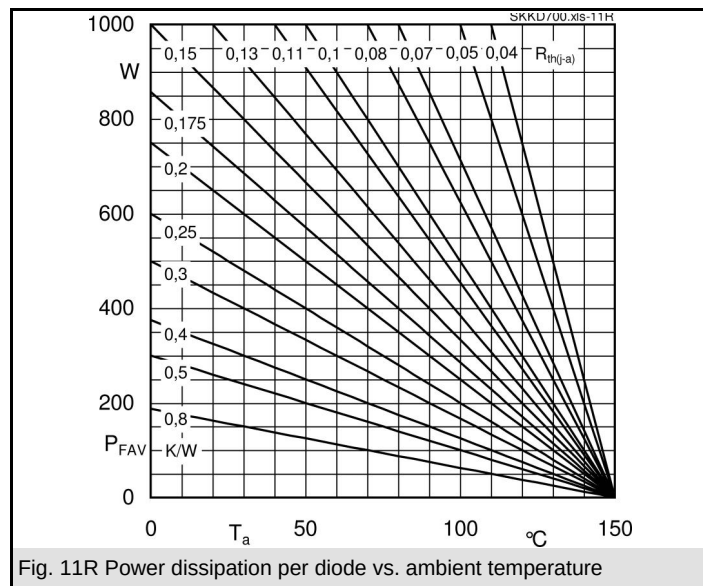
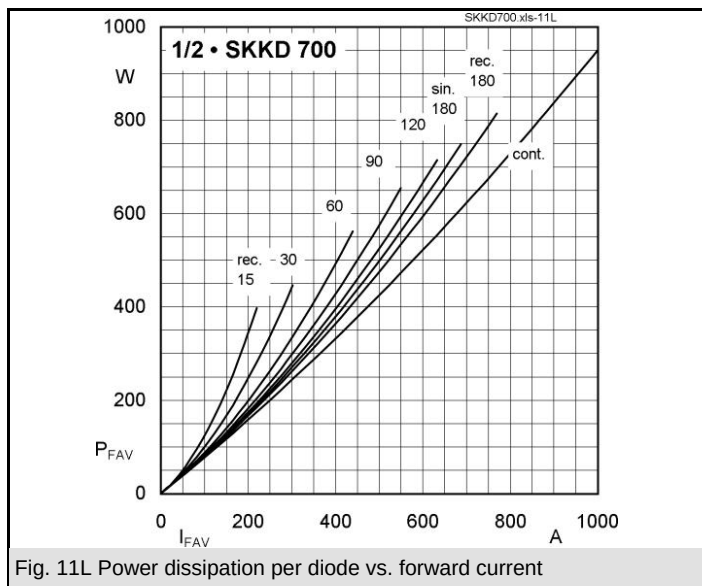
¹⁾ The screws must be lubricated

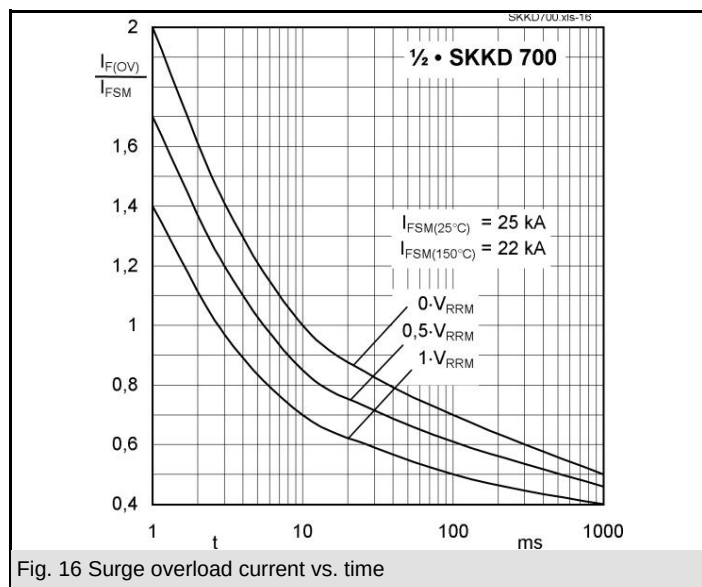
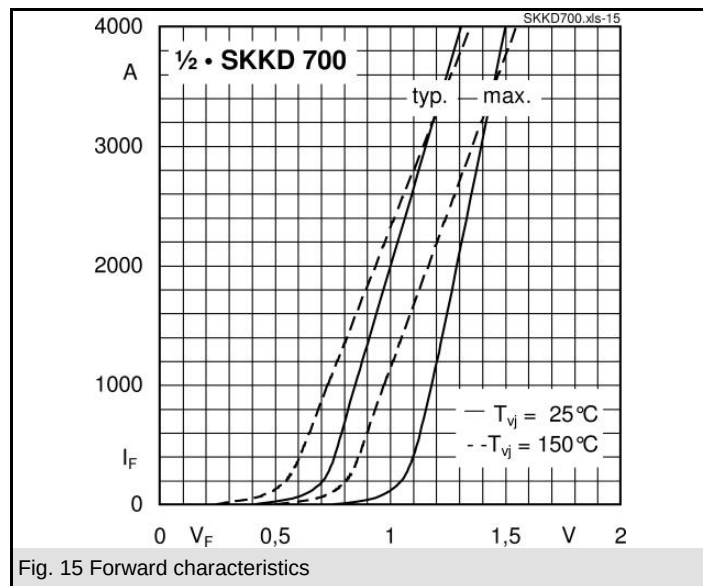
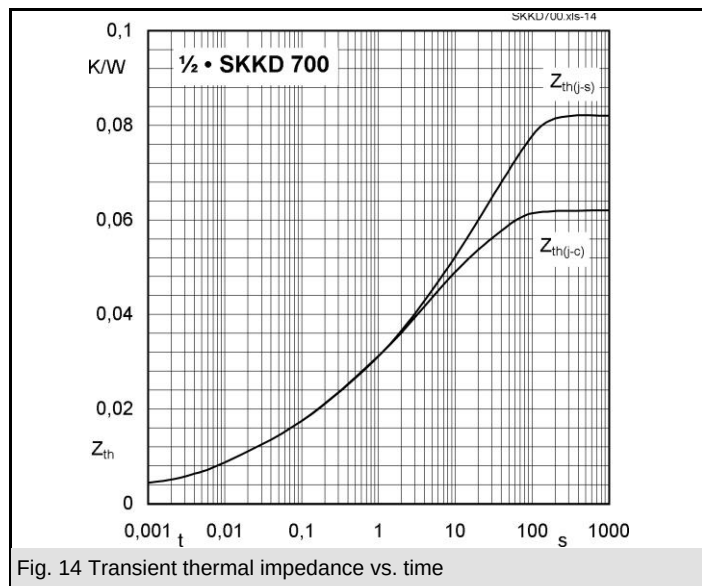
V_{RSM} V	V_{RRM} V	$I_{FRMS} = 1100$ A (maximum value for continuous operation) $I_{FAV} = 700$ A (sin. 180; $T_c = 100$ °C)		
900	800	SKKD 700/08		
1300	1200	SKKD 700/12		
1500	1400	SKKD 700/14		
1700	1600	SKKD 700/16		
1900	1800	SKKD 700/18		
2100	2000	SKKD 700/20 H4		
2300	2200	SKKD 700/22 H4		

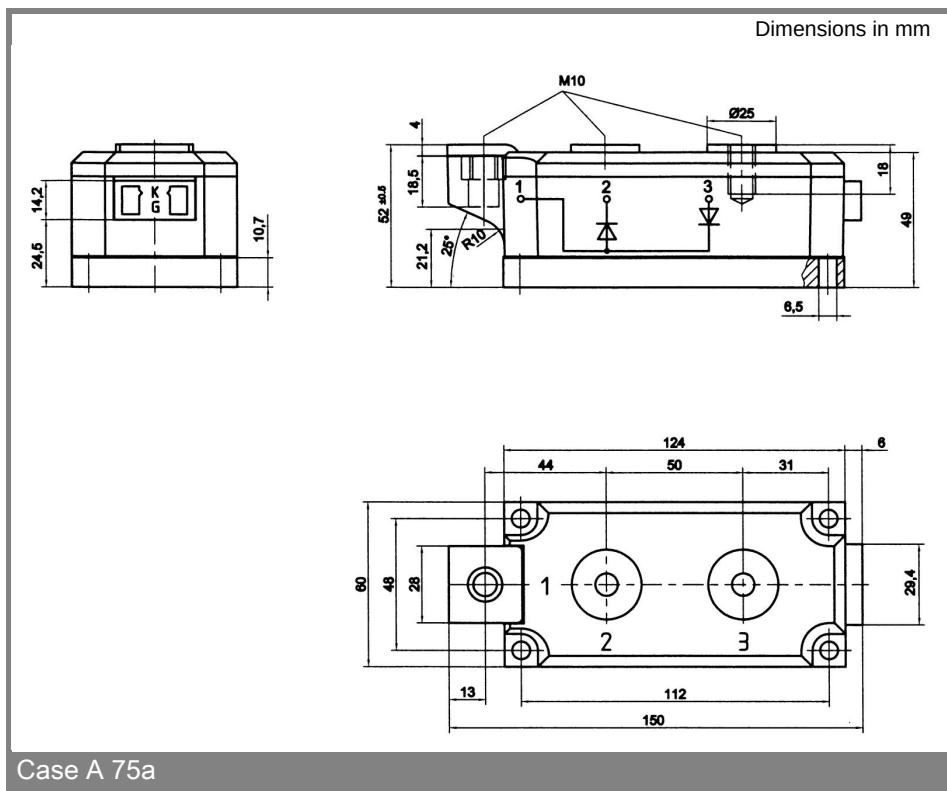
Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; $T_c = 100$ °C	700	A
I_{FSM}	$T_{vj} = 25$ °C; 10 ms $T_{vj} = 125$ °C; 10 ms	25000 22000	A A
i^2t	$T_{vj} = 25$ °C; 8,3 ... 10 ms $T_{vj} = 125$ °C; 8,3 ... 10 ms	3125000 2420000	A²s A²s
V_F $V_{(TO)}$ r_T I_{RD}	$T_{vj} = 25$ °C; $I_F = 2000$ A $T_{vj} = 150$ °C $T_{vj} = 150$ °C $T_{vj} = 150$ °C; $V_{RD} = V_{RRM}$	max. 1,3 max. 0,75 max. 0,2 max. 20	V V mΩ mA
$R_{th(j-c)}$ $R_{th(c-s)}$ T_{vj} T_{stg}	cont.; per diode / per module sin. 180; per diode / per module rec. 120; per diode / per module per diode / per module	0,062 / 0,031 0,065 / 0,0325 0,07 / 0,035 0,02 / 0,01	K/W K/W K/W K/W
V_{isol} V_{isol} M_s M_t a m	a. c. 50 Hz; r.m.s.; 1 s / 1 min. a. c. 50 Hz; r.m.s.; 1 s / 1 min. for SKKD ...H4 to heatsink to terminals approx.	3600 / 3000 4800 / 4000 5 ± 15 % 12 ± 15 % ¹⁾ 5 * 9,81 1420	V~ V~ Nm Nm m/s² g
Case		A 75a	



SKKD







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