



**SEMIPACK<sup>®</sup> 5**

## Rectifier Diode Modules

**SKKD 701**

### Features

- Heat transfer through aluminium nitride ceramic insulated metal baseplate
- Precise metal pressure contacts for high reliability
- UL recognized, file no. E63532

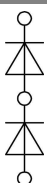
### Typical Applications\*

- Uncontrolled rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controller
- Field supply for DC motors

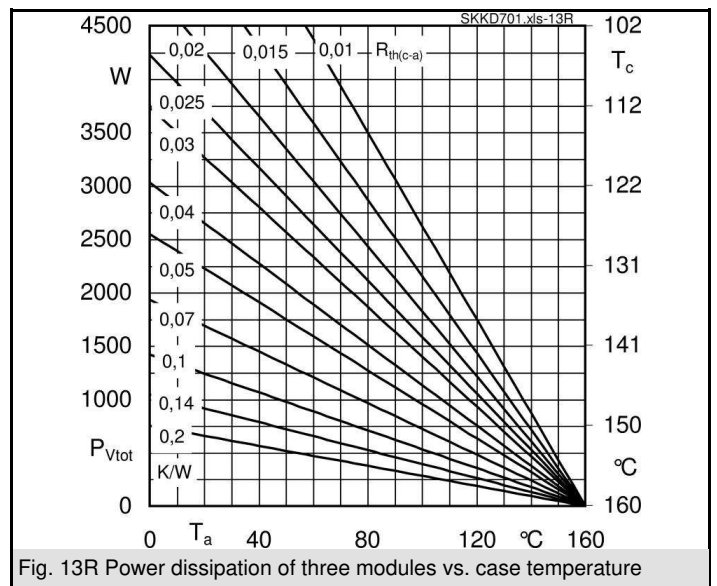
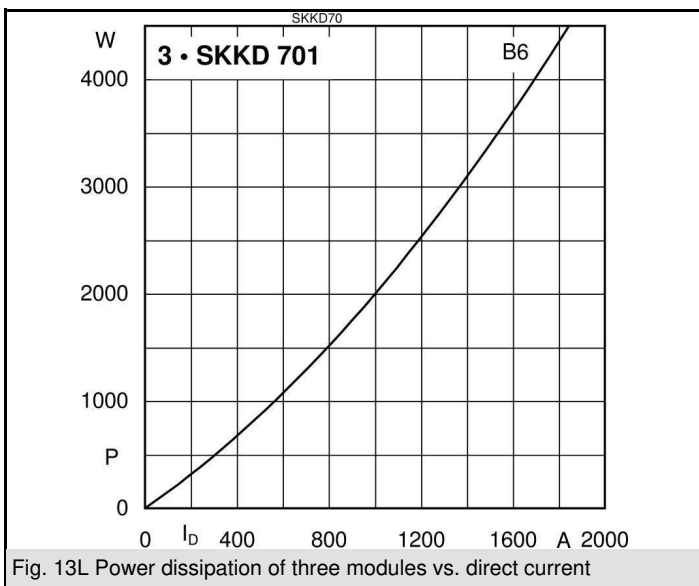
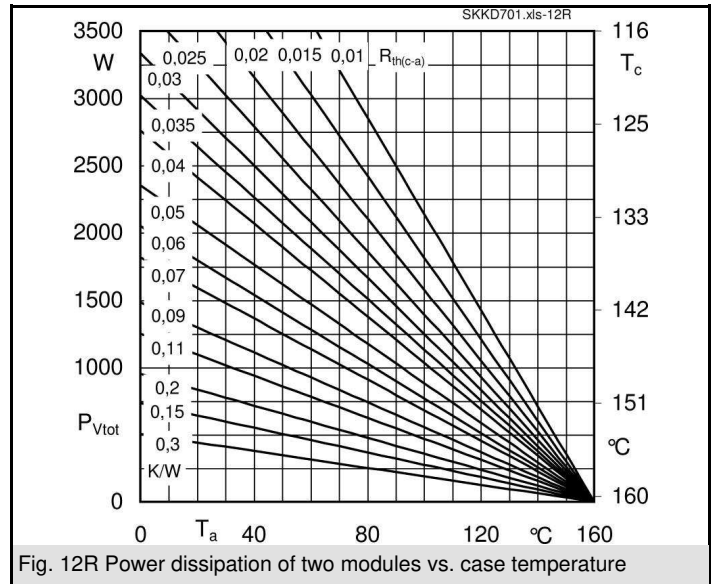
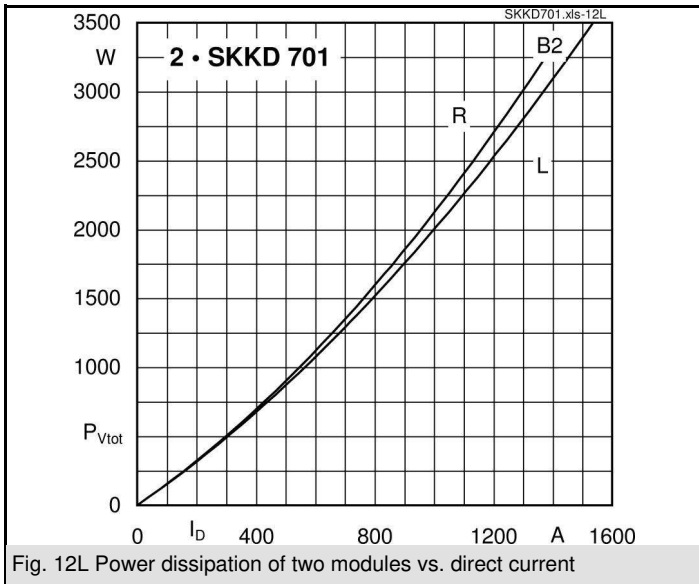
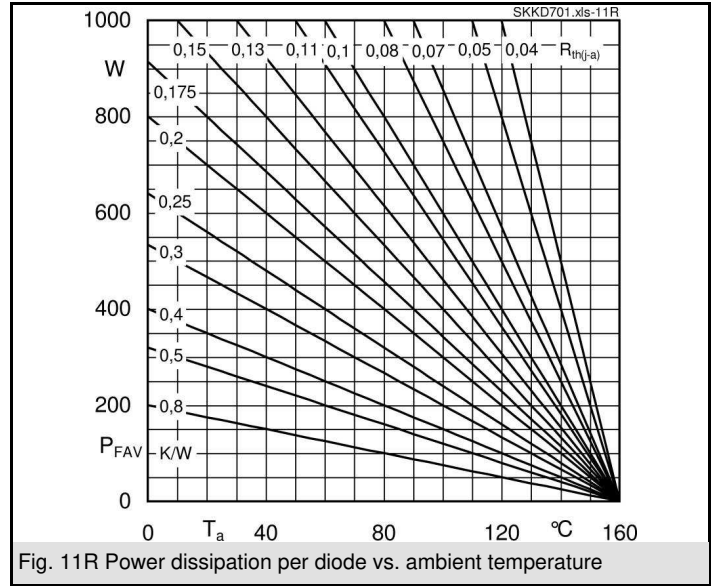
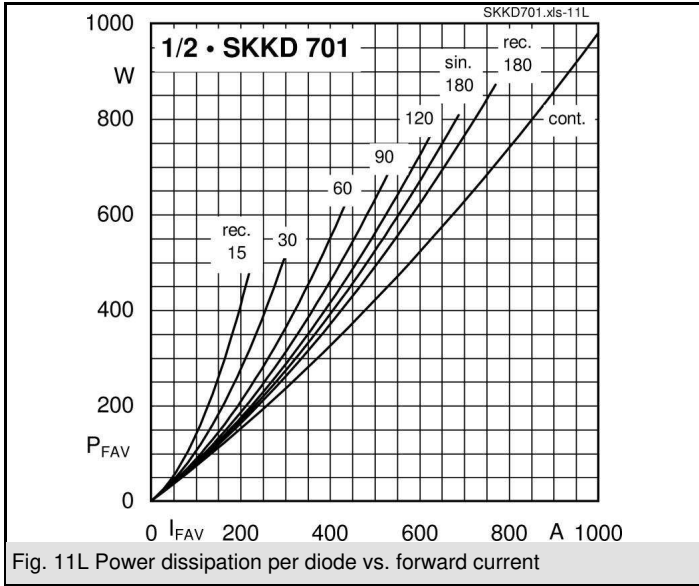
1) see assembly instructions

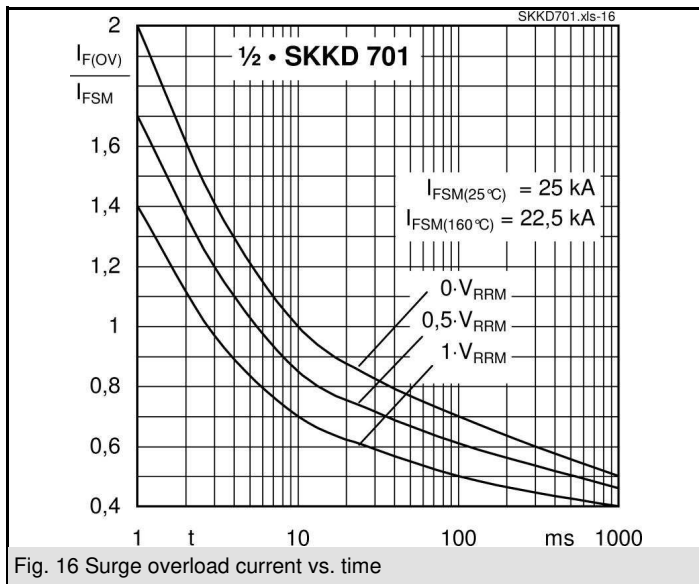
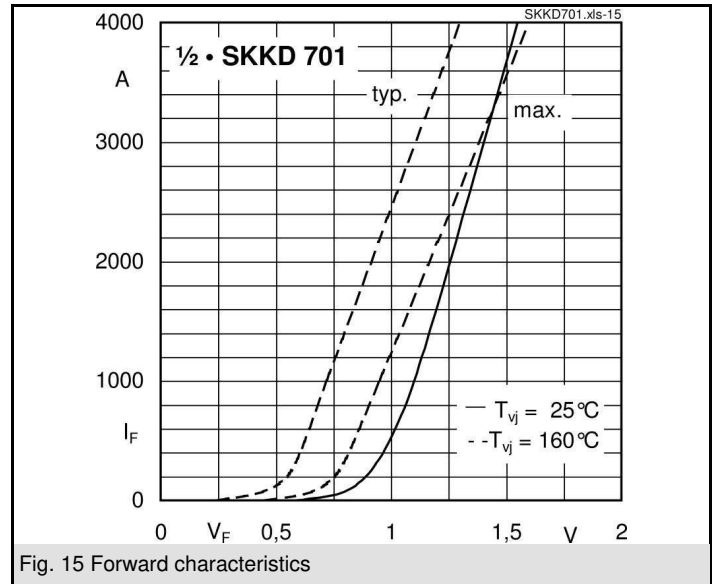
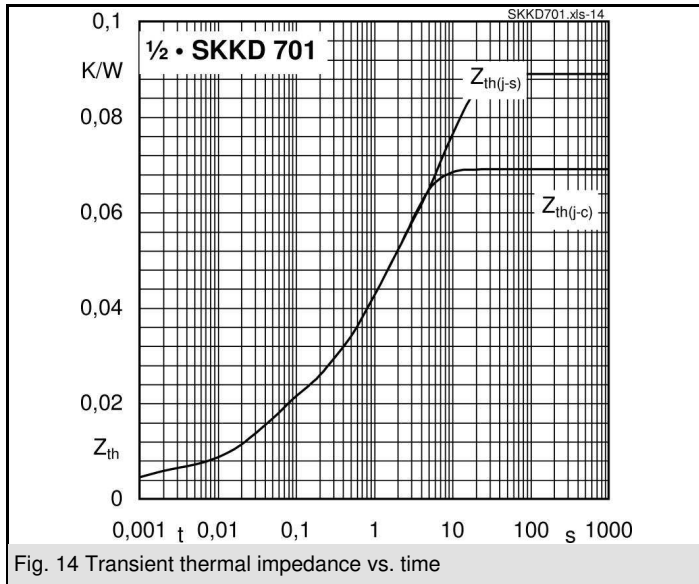
$V_{RSM}$ V	$V_{RRM}$ V	$I_{FRMS} = 1100$ A (maximum value for continuous operation) $I_{FAV} = 701$ A (sin. 180; $T_c = 100$ °C)	
1300	1200	SKKD 701/12	
1700	1600	SKKD 701/16	
1900	1800	SKKD 701/18	
2300	2200	SKKD 701/22 H4	

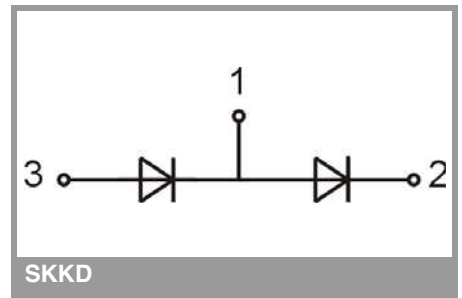
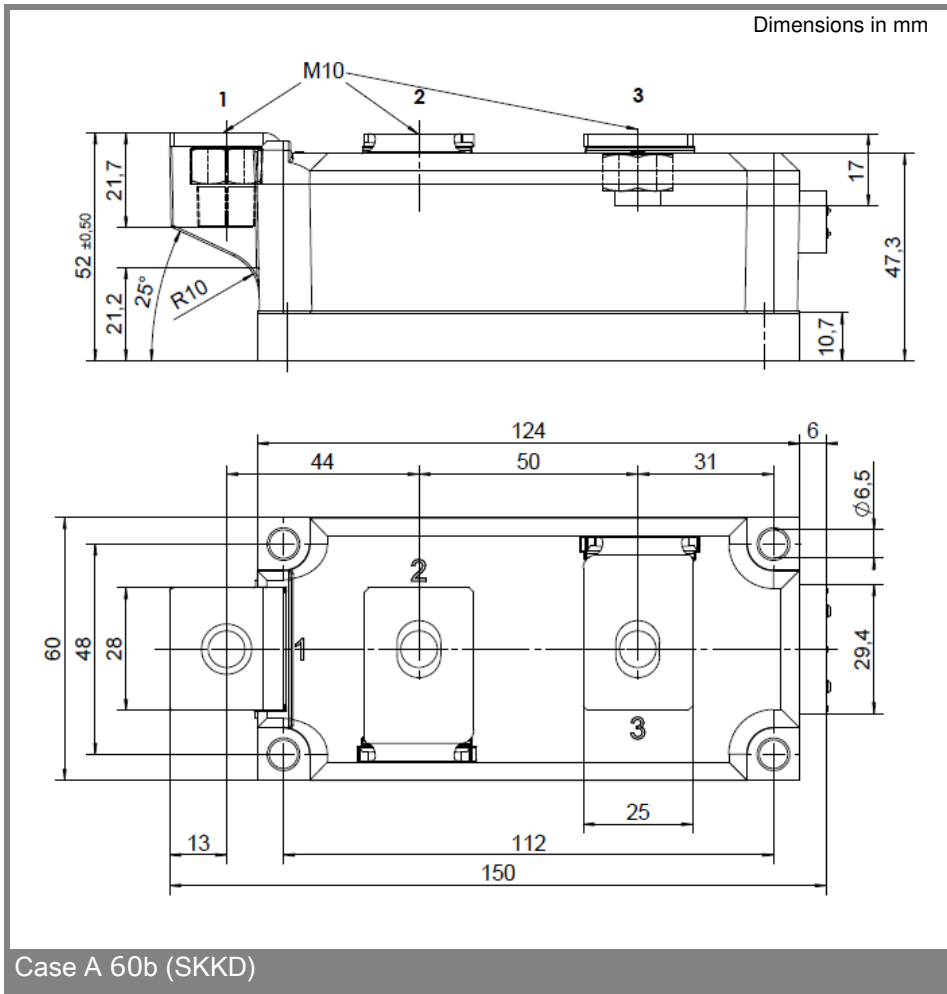
Symbol	Conditions	Values	Units
$I_{FAV}$	sin. 180; $T_c = 100$ (85) °C	701 (820)	A
$I_{FSM}$	$T_{vj} = 25$ °C; 10 ms	25000	A
	$T_{vj} = 160$ °C; 10 ms	22500	A
$i^2t$	$T_{vj} = 25$ °C; 8,3 ... 10 ms	3125000	A <sup>2</sup> s
	$T_{vj} = 160$ °C; 8,3 ... 10 ms	2531250	A <sup>2</sup> s
$V_F$	$T_{vj} = 25$ °C; $I_F = 2000$ A	max. 1,25	V
$V_{(TO)}$	$T_{vj} = 160$ °C	max. 0,7	V
$r_T$	$T_{vj} = 160$ °C	max. 0,28	mΩ
$I_{RD}$	$T_{vj} = 160$ °C; $V_{RD} = V_{RRM}$	max. 30	mA
$R_{th(j-c)}$	cont.; per diode / per module	0,069 / 0,034	K/W
	sin. 180; per diode / per module	0,072 / 0,036	K/W
	rec. 120; per diode / per module	0,077 / 0,038	K/W
$R_{th(c-s)}$	per diode / per module	0,02 / 0,01	K/W
$T_{vj}$		- 40 ... + 160	°C
$T_{stg}$		- 40 ... + 125	°C
$V_{isol}$	a.c. 50 Hz, r.m.s.; 1 s / 1 min.	3600 / 3000	V~
$V_{isol}$	a.c. 50 Hz, r.m.s.; 1 s / 1 min. for SKK... H4	4800 / 4000	V~
$M_s$	to heatsink	$5 \pm 15$ % <sup>1)</sup>	Nm
$M_t$	to terminals	$12 \pm 15$ %	Nm
$a$		$5 * 9,81$	m/s <sup>2</sup>
$m$	approx.	1400	g
Case		A 60b	



**SKKD**







This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, chapter IX.

**\*IMPORTANT INFORMATION AND WARNINGS**

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