

# SKKD 701



**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

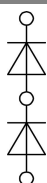
#### Typical Applications\*

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

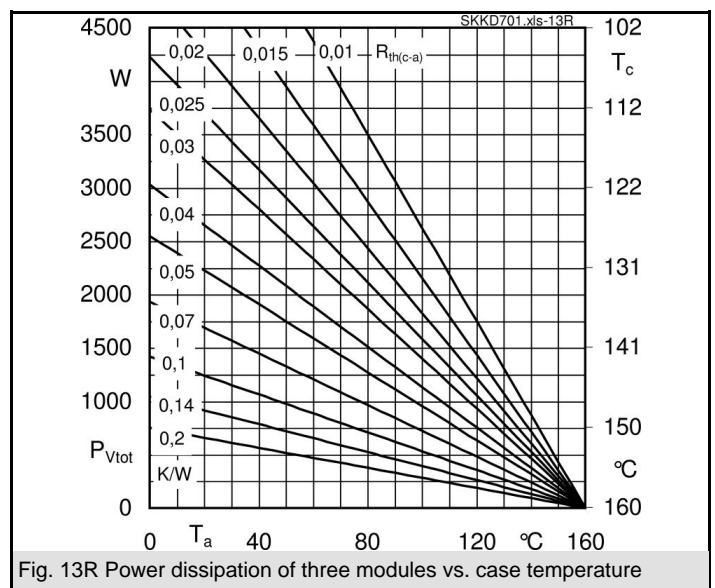
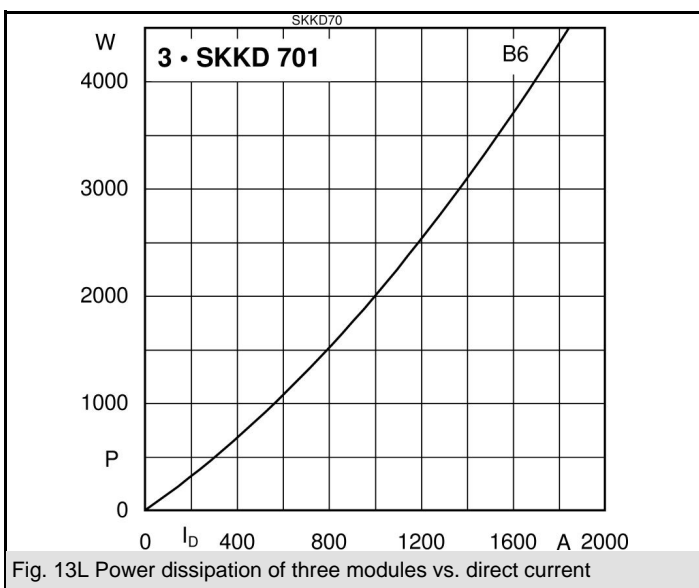
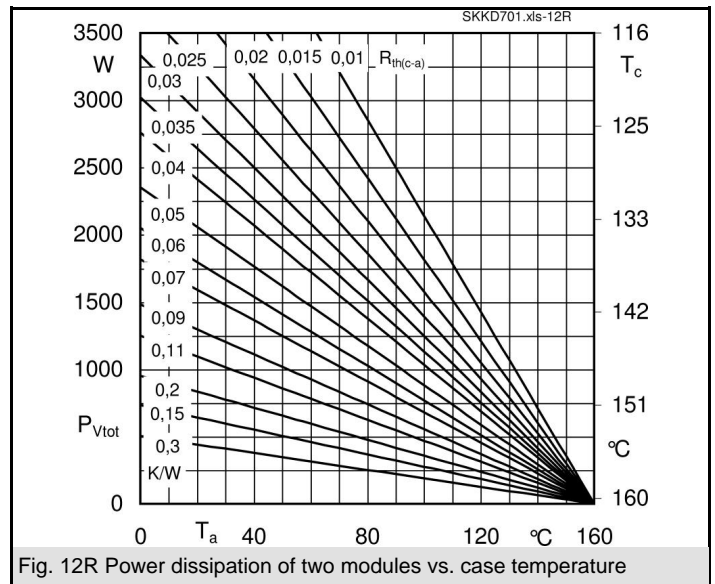
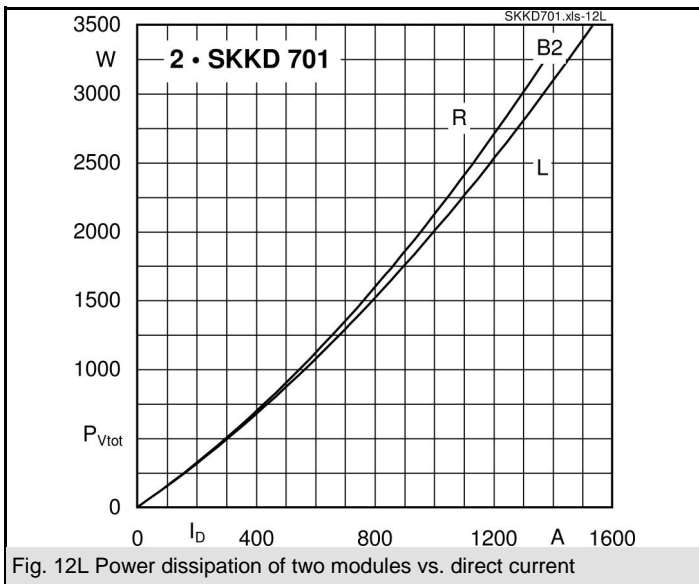
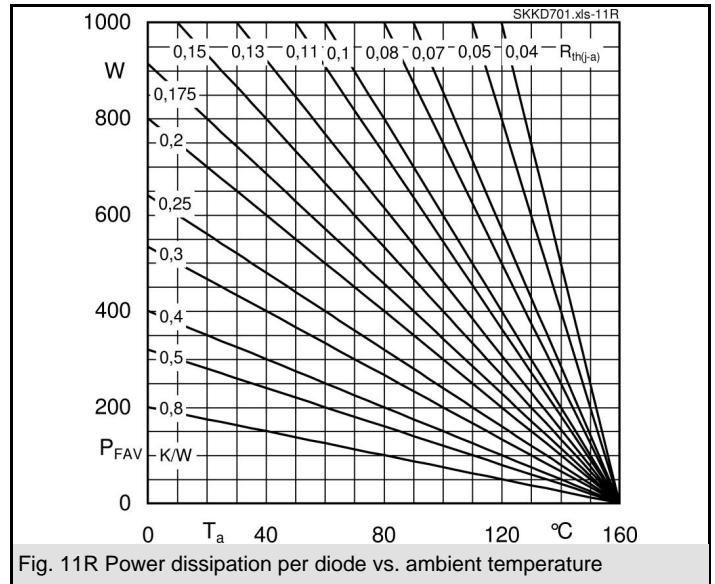
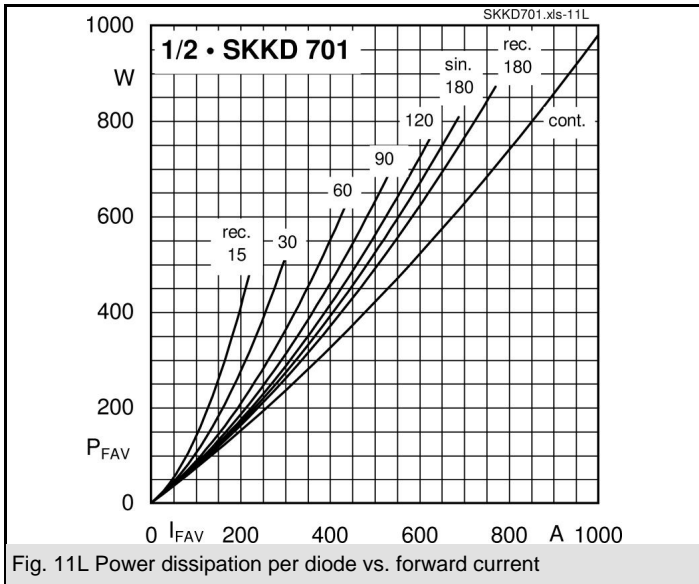
1) see assembly instructions

$V_{RSM}$ 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 75b	



**SKKD**



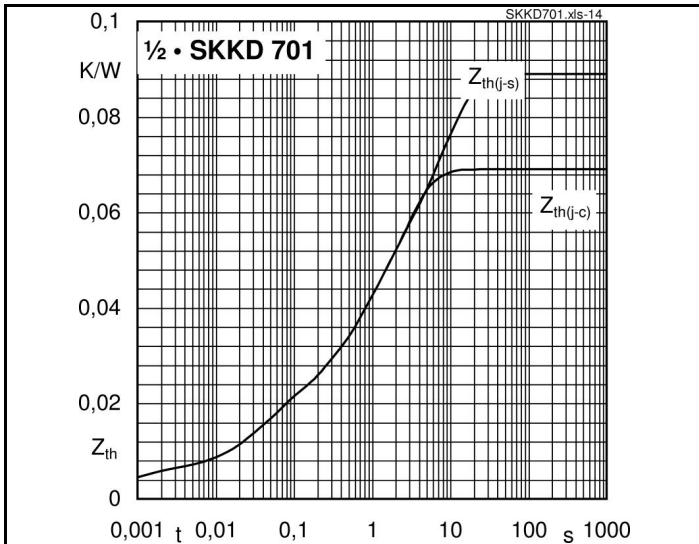


Fig. 14 Transient thermal impedance vs. time

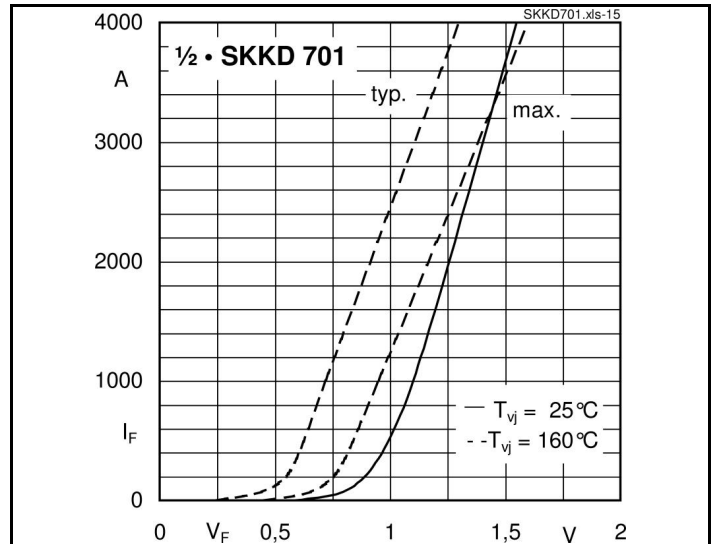


Fig. 15 Forward characteristics

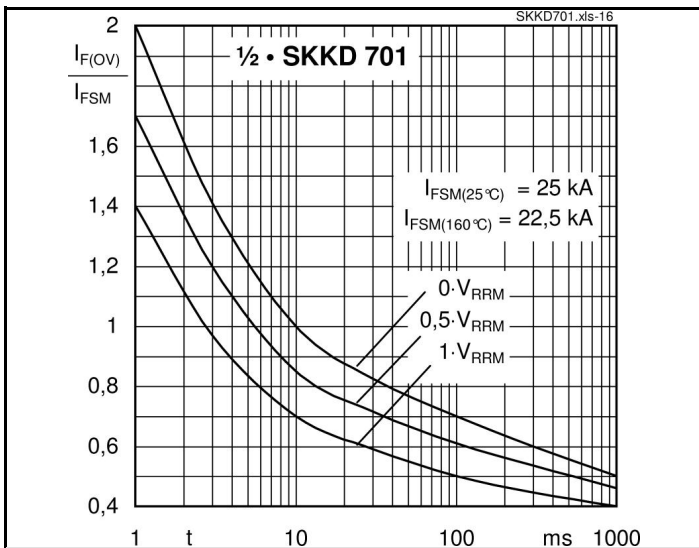
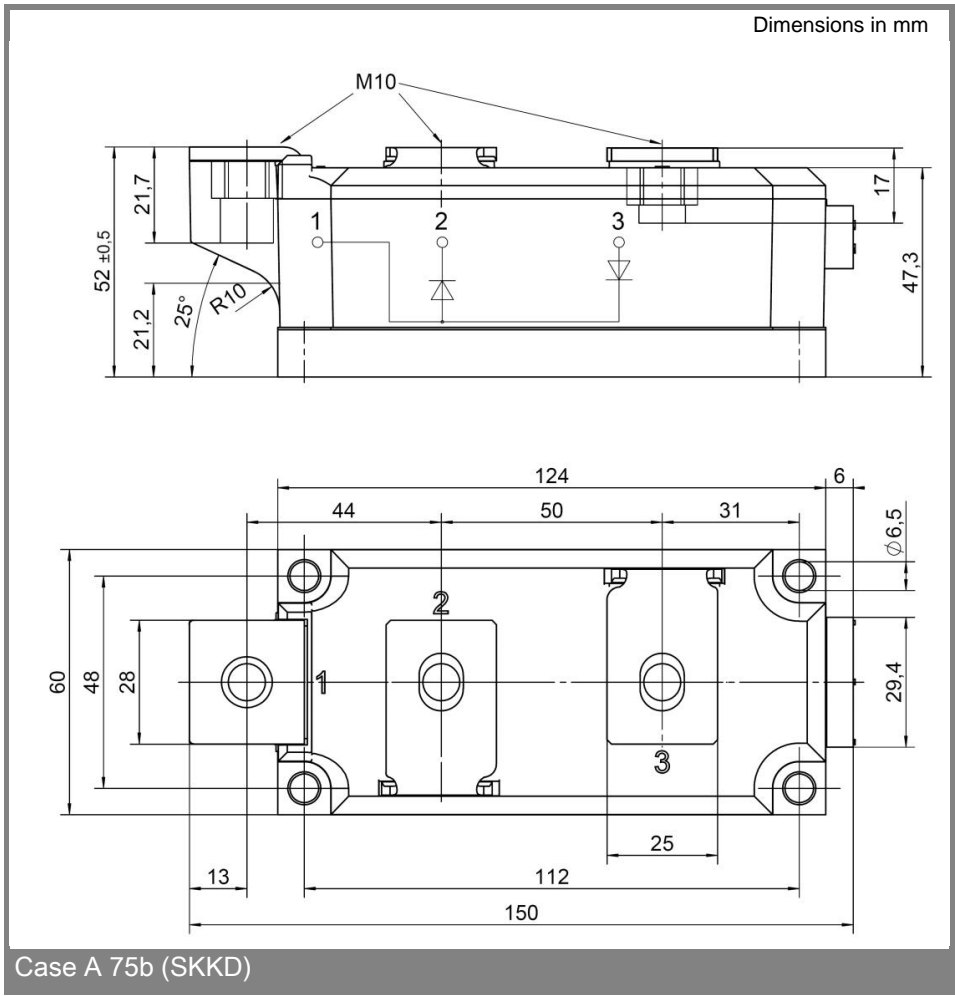


Fig. 16 Surge overload current vs. time



\* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our staff.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Schottky Diodes & Rectifiers](#) category:*

*Click to view products by [Semikron](#) manufacturer:*

Other Similar products are found below :

[CUS06\(Te85L,Q,M\)](#) [MA4E2508M-1112](#) [D1FH3-5063](#) [MBR0530L-TP](#) [MBR10100CT-BP](#) [MBR30H100MFST1G](#) [MMBD301M3T5G](#)  
[PMAD1103-LF](#) [PMAD1108-LF](#) [RB160M-50TR](#) [RB520S-30](#) [RB551V-30](#) [D83C](#) [DD350N18K](#) [DZ435N40K](#) [DZ600N16K](#)  
[BAS16E6433HTMA1](#) [BAS 3010S-02LRH E6327](#) [BAT 15-099R E6327](#) [BAT 54-02LRH E6327](#) [NRVBAF360T3G](#) [NRVTS10100MFST1G](#)  
[NRVTS12100EMFST1G](#) [NSR05F40QNXT5G](#) [NSVR05F40NXT5G](#) [JANS1N6640](#) [SB07-03C-TB-H](#) [SB1003M3-TL-W](#) [SBAT54CWT1G](#)  
[SK32A-LTP](#) [SK33A-TP](#) [SK34A-TP](#) [SK34B-TP](#) [SMD1200PL-TP](#) [ACDBN160-HF](#) [SS3003CH-TL-E](#) [STPS3045CPIRG](#) [STPS30S45CW](#)  
[PDS3100Q-7](#) [GA01SHT18](#) [CRS10I30A\(Te85L,QM\)](#) [CRS10I30B\(Te85L,QM\)](#) [MBR1240MFST1G](#) [MBR20100CT-BP](#) [MBRB30H30CT-1G](#)  
[BAS28E6433HTMA1](#) [BAS 70-02L E6327](#) [BYS11-90-E3TR3](#) [JANTX1N5712-1](#) [VS-STPS40L45CW-N3](#)