SKKD 701



SEMIPACK[®]5

Rectifier Diode Modules

SKKD 701

Features

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

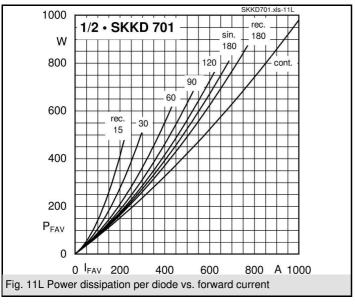
Typical Applications*

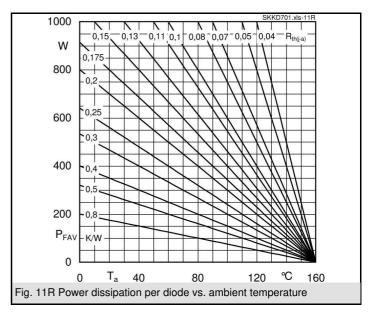
- Uncontrolled rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controller
- Field supply for DC motors
- 1) see assembly instructions

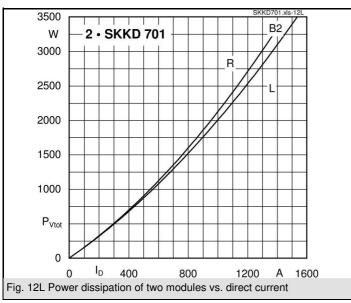
V_{RSM}	V_{RRM}	I _{FRMS} = 1100 A (maximum value for continuous operation)		
V	V	I _{FAV} = 701 A (sin. 180; T _C = 100 °C)		
1300	1200	SKKD 701/12		
1700	1600	SKKD 701/16		
1900	1800	SKKD 701/18		
2300	2200	SKKD 701/22 H4		

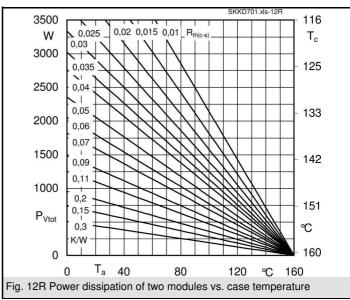
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 100 (85) °C	701 (820)	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	25000	Α
	T _{vi} = 160 °C; 10 ms	22500	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	3125000	A²s
	T _{vj} = 160 °C; 8,3 10 ms	2531250	A²s
V _F	T _{vi} = 25 °C; I _F = 2000 A	max. 1,25	V
$V_{(TO)}$	T _{vi} = 160 °C	max. 0,7	V
r _T	T _{vj} = 160 °C	max. 0,28	mΩ
I_{RD}	$T_{vj} = 160 ^{\circ}\text{C}; V_{RD} = V_{RRM}$	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 ± 15 % ¹⁾	Nm
M_t	to terminals	12 ± 15 %	Nm
а		5 * 9,81	m/s²
m	арргох.	1400	g
Case		A 60b	

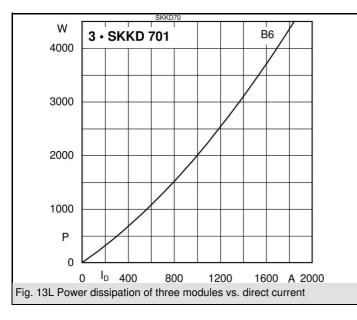


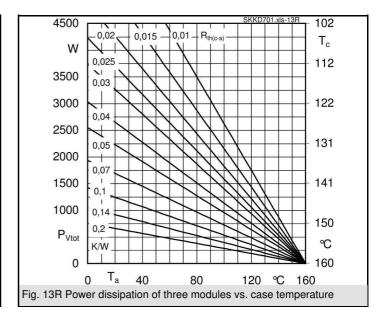




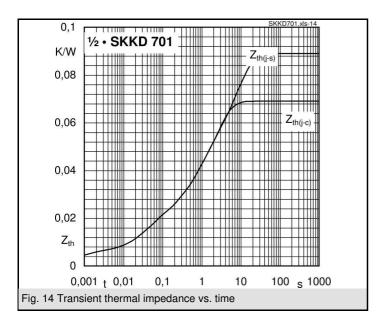


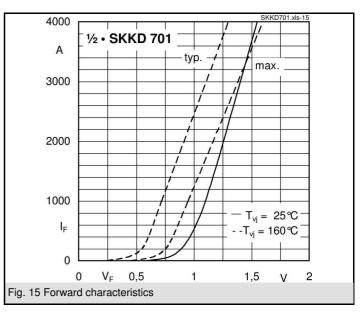


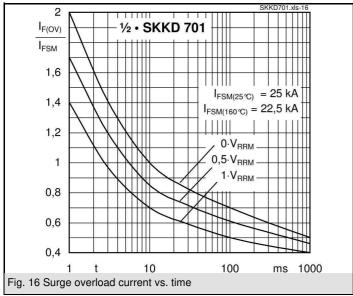


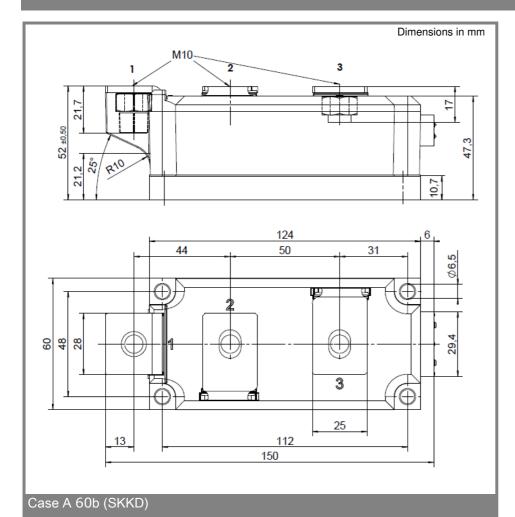


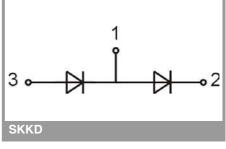
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This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, chapter IX.

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