SKKD 701



SEMIPACK®5

Rectifier Diode Modules

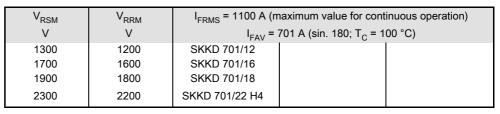
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Features

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

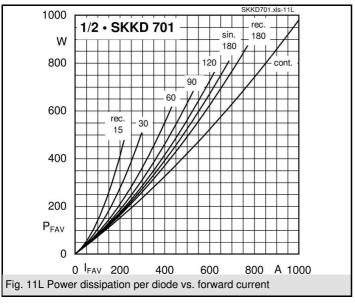
Typical Applications*

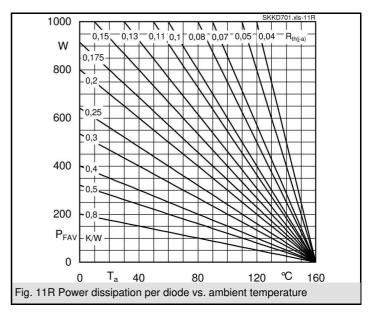
- Uncontrolled rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controller
- Field supply for DC motors
- 1) see assembly instructions

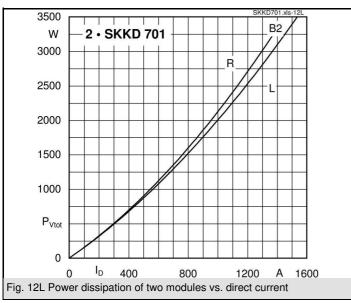


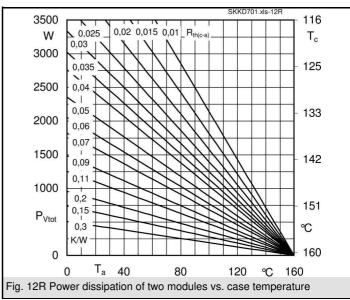
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 100 (85) °C	701 (820)	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	25000	Α
	$T_{vi} = 160 ^{\circ}\text{C}; 10 \text{ms}$	22500	Α
i²t	T _{vi} = 25 °C; 8,3 10 ms	3125000	A²s
	T _{vj} = 160 °C; 8,3 10 ms	2531250	A²s
V _F	T _{vi} = 25 °C; I _F = 2000 A	max. 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 °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 _{vi} ′		- 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	approx.	1400	g
Case		A 60b	

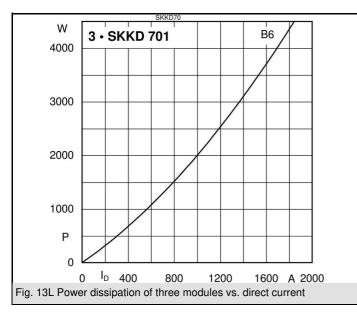


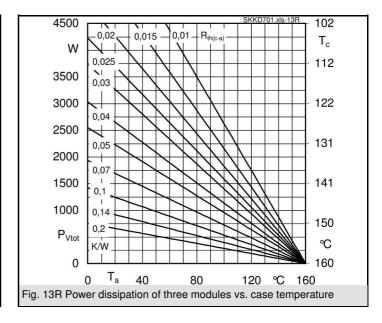




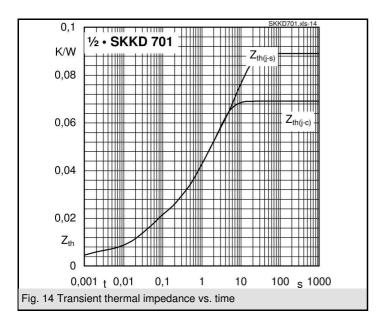


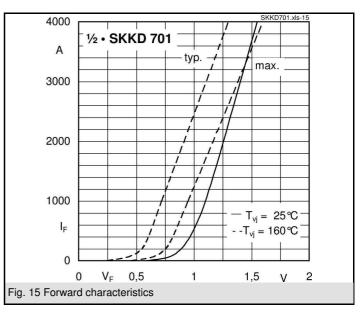


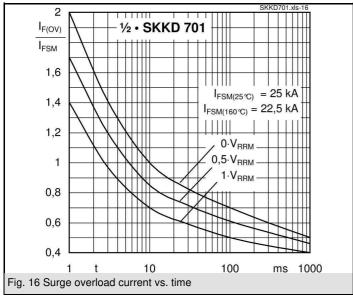


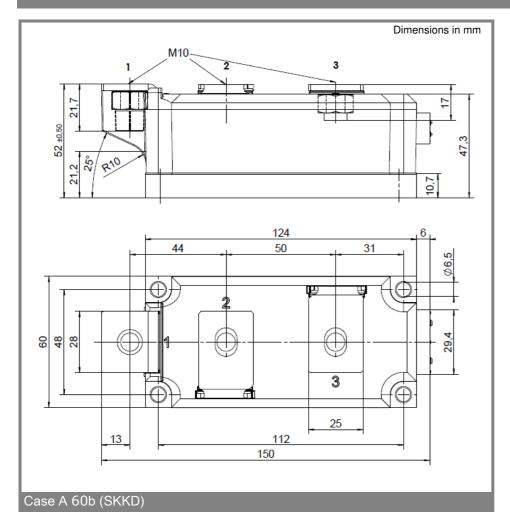


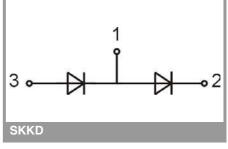
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This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, chapter IX.

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