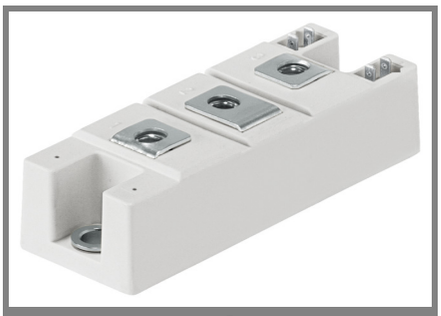
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SKKD 162, SKKE 162



SEMIPACK® 2

Rectifier Diode Modules

SKKD 162

SKKE 162

V_{RSM} V	V_{RRM} V	I_{FRMS} = 310 A (maximum value for continuous operation) I_{FAV} = 160 A (sin. 180; T_c = 95 °C)		
1300	1200	SKKD 162/12	SKKE 162/12	
1700	1600	SKKD 162/16	SKKE 162/16	
1900	1800	SKKD 162/18	SKKE 162/18	
2100	2000	SKKD 162/20 H4		
2300	2200	SKKD 162/22 H4	SKKE 162/22 H4	

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; T_c = 85 (100) °C	195 (150)	A
I_D	P3/180; T_a = 45 °C; B2 / B6	90 / 115	A
	P3/180F; T_a = 35 °C; B2 / B6	210 / 260	A
I_{FSM}	T_{vj} = 25 °C; 10 ms	6000	A
	T_{vj} = 125 °C; 10 ms	5000	A
i²t	T_{vj} = 25 °C; 8,3 ... 10 ms	180000	A²s
	T_{vj} = 125 °C; 8,3 ... 10 ms	125000	A²s
V_F	T_{vj} = 25 °C; I_F = 500 A	max. 1,5	V
$V_{(TO)}$	T_{vj} = 135 °C	max. 0,85	V
r_T	T_{vj} = 135 °C	max. 1,2	mΩ
I_{RD}	T_{vj} = 135 °C; V_{RD} = V_{RRM}	max. 9	mA
$R_{th(j-c)}$	per diode / per module [1]	0,18 / 0,09	K/W
$R_{th(c-s)}$	per diode / per module [1]	0,1 / 0,05	K/W
T_{vj}		- 40 ... + 135	°C
T_{stg}		- 40 ... + 135	°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 %	Nm
M_t	to terminals	5 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	165	g
Case	SKKD	A 23	
	SKKE	A 24	
	SKKE H4	A 54	

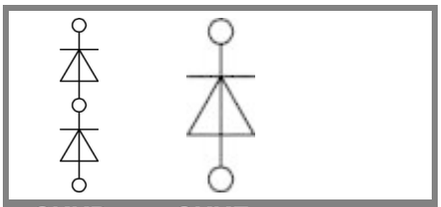
Features

- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

Typical Applications*

- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

1) SKKD types only



SKKD SKKE

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SKKD 162, SKKE 162

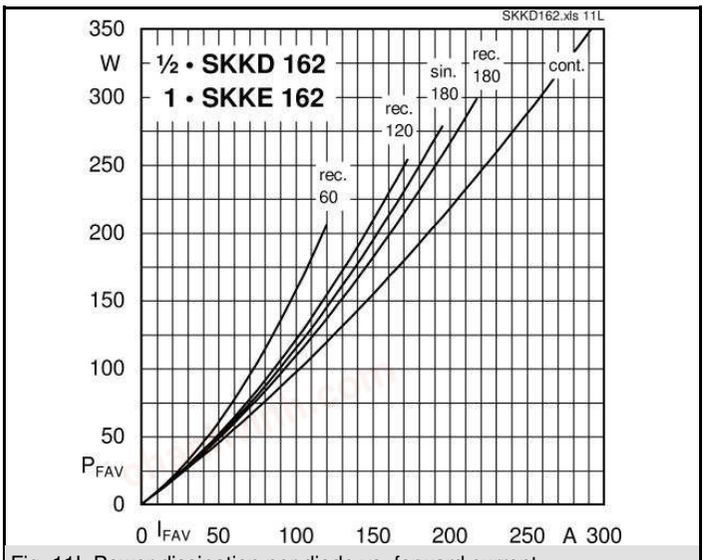


Fig. 11L Power dissipation per diode vs. forward current

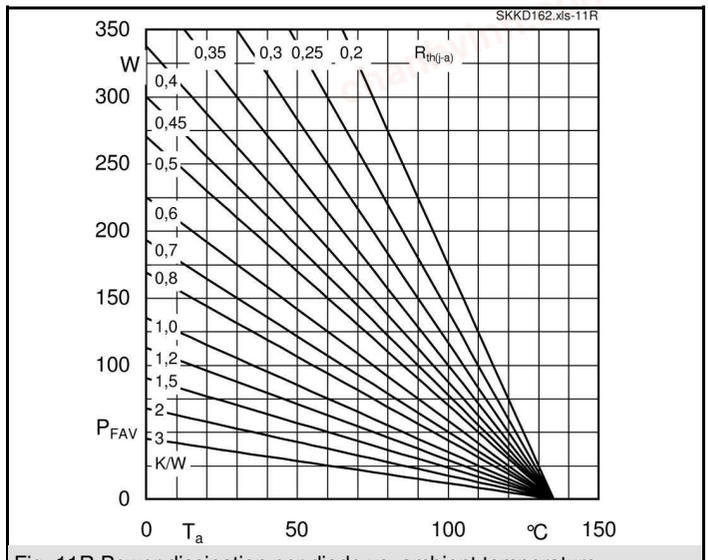


Fig. 11R Power dissipation per diode vs. ambient temperature

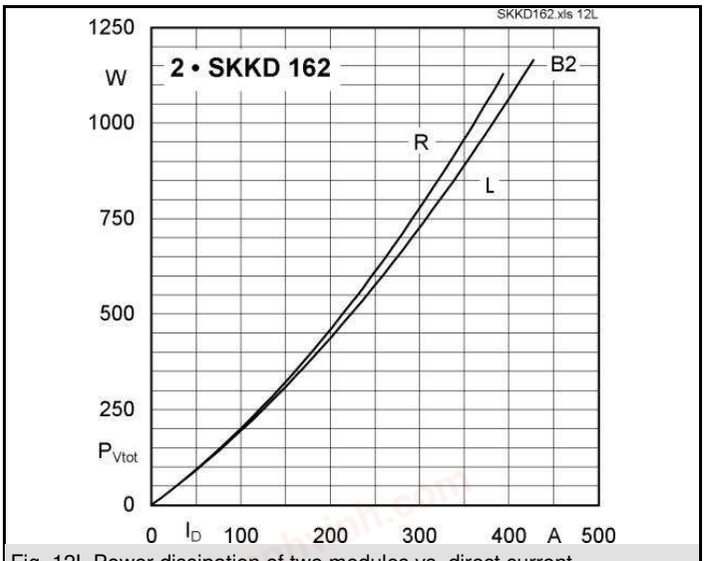


Fig. 12L Power dissipation of two modules vs. direct current

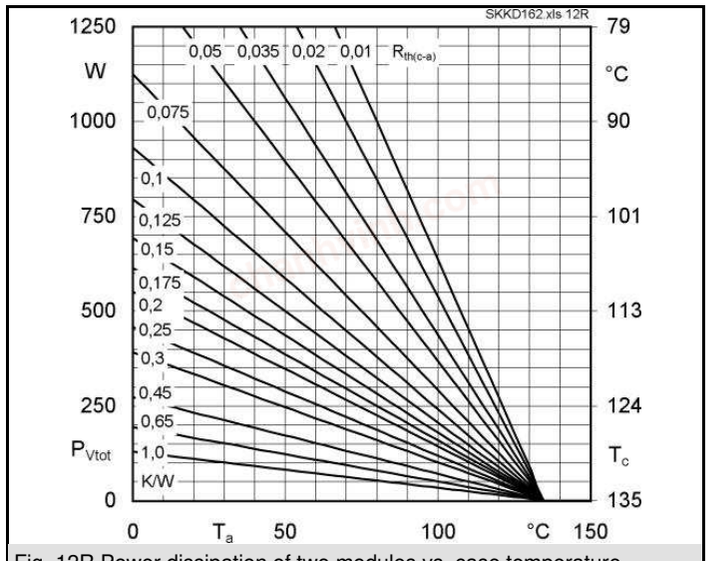


Fig. 12R Power dissipation of two modules vs. case temperature

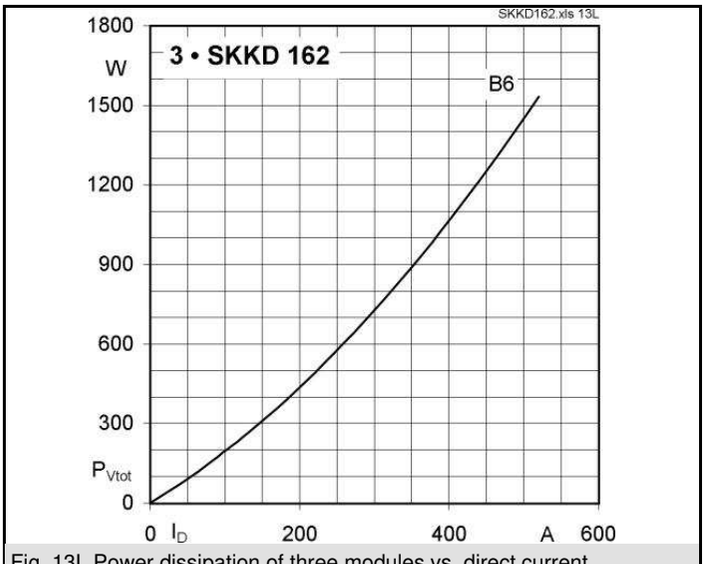


Fig. 13L Power dissipation of three modules vs. direct current

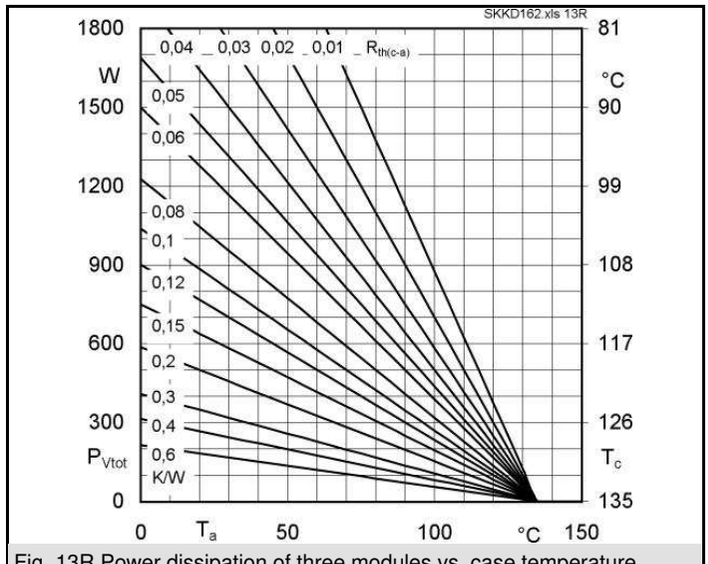


Fig. 13R Power dissipation of three modules vs. case temperature

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SKKD 162, SKKE 162

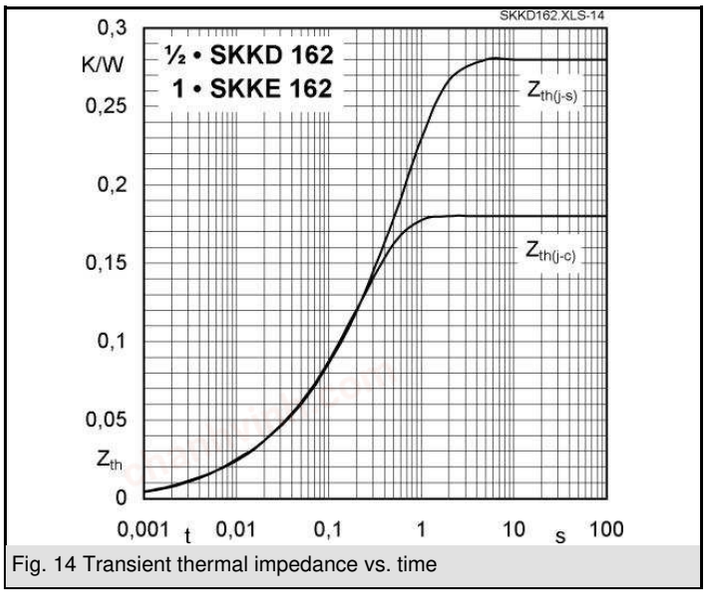


Fig. 14 Transient thermal impedance vs. time

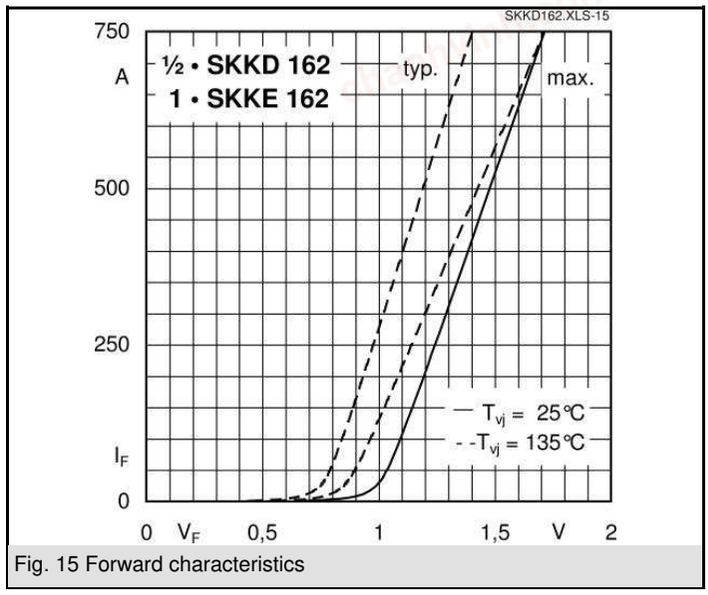


Fig. 15 Forward characteristics

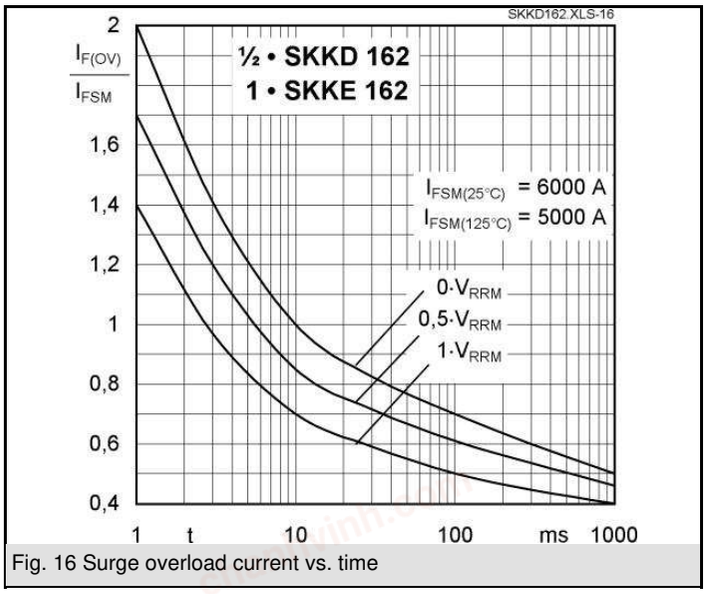


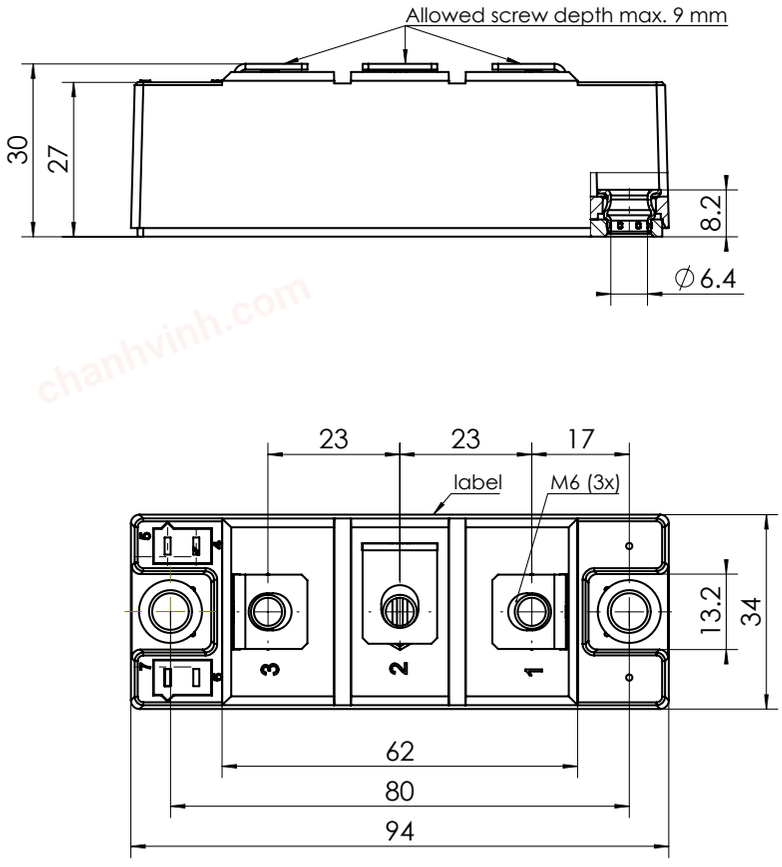
Fig. 16 Surge overload current vs. time

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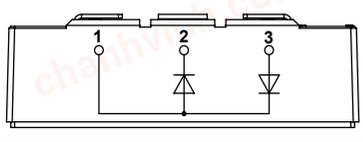
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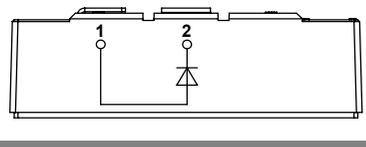
Dimensions in mm
General tolerance ±0.5 mm



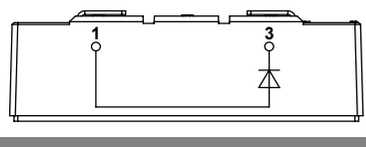
SEMIPACK 2



Case A 23 SKKD



Case A 24 SKKE



Case A 54 SKKE H4

IMPORTANT INFORMATION AND WARNINGS

This is an electrostatic discharge sensitive device (ESDS) according to international standard IEC 61340.

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