## SKKD 162, SKKE 162



# SEMIPACK<sup>®</sup> 2

### **Rectifier Diode Modules**

SKKD 1	62
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**SKKE 162** 

#### Features

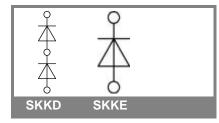
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

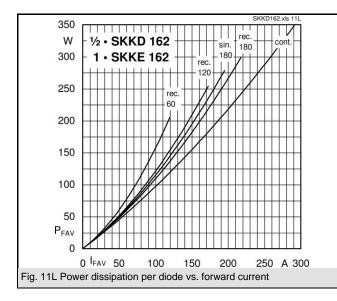
#### **Typical Applications\***

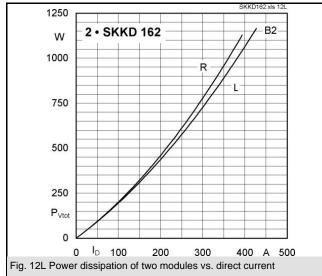
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors
- 1) SKKD types only

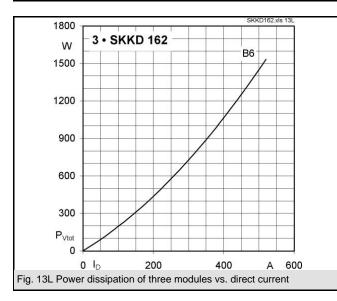
V <sub>RSM</sub>	V <sub>RRM</sub>	I <sub>FRMS</sub> = 310 A (maximum value for continuous operation)		
V	V	I <sub>FAV</sub> = 160 A (sin. 180; T <sub>c</sub> = 95 °C)		
900	800	SKKD 162/08	SKKE 162/08	
1300	1200	SKKD 162/12	SKKE162/12	
1500	1400	SKKD 162/14	SKKE 162/14	
1700	1600	SKKD 162/16	SKKE 162/16	
1900	1800	SKKD 162/18	SKKE 162/18	
2100	2000	SKKD 162/20H4		
2300	2200	SKKD 162/22H4		

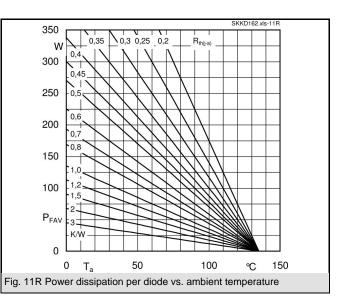
Symbol	Conditions	Values	Units
IFAV	sin. 180; T <sub>c</sub> = 85 (100) °C	195 (150)	А
I <sub>D</sub>	P3/180; T <sub>a</sub> = 45 °C; B2 / B6	90 / 115	А
	P3/180F; T <sub>a</sub> = 35 °C; B2 / B6	210 / 260	А
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	6000	A
	T <sub>vi</sub> = 125 °C; 10 ms	5000	А
i²t	T <sub>vj</sub> = 25 °C; 8,3 10 ms	180000	A²s
	T <sub>vj</sub> = 125 °C; 8,3 10 ms	125000	A²s
V <sub>F</sub>	T <sub>vi</sub> = 25 °C; I <sub>F</sub> = 500 A	max. 1,5	V
V <sub>(TO)</sub>	T <sub>vi</sub> = 135 °C	max. 0,85	V
r <sub>T</sub>	T <sub>vj</sub> = 135 °C	max. 1,2	mΩ
I <sub>RD</sub>	T <sub>vj</sub> = 135 °C; V <sub>RD</sub> = V <sub>RRM</sub>	max. 9	mA
R <sub>th(j-c)</sub>	per diode / per module 1)	0,18 / 0,09	K/W
R <sub>th(c-s)</sub>	per diode / per module 1)	0,1 / 0,05	K/W
T <sub>vj</sub>		- 40 + 135	°C
T <sub>stg</sub>		- 40 + 135	°C
V <sub>isol</sub>	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	٧~
V <sub>isol</sub>	a. c. 50 Hz; r.m.s.; 1 s / 1 min. for SKKH4	4800 / 4000	V~
Ms	to heatsink	5 ± 15 %	Nm
Mt	to terminals	5 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	165	g
Case	SKKD	A 23	
	SKKE	A 24	

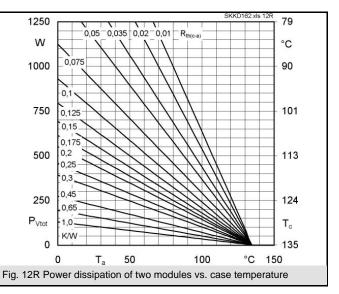


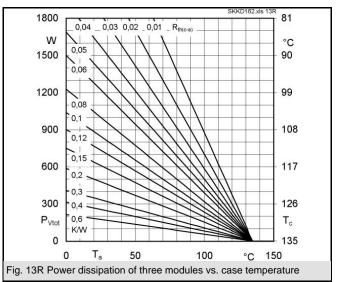






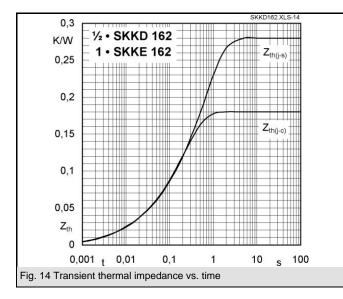


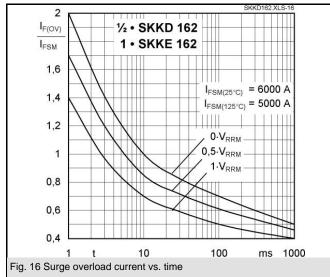


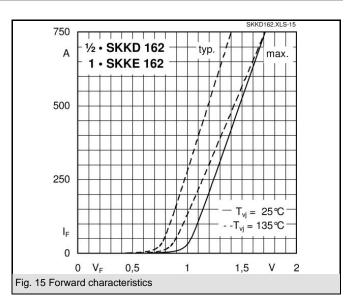


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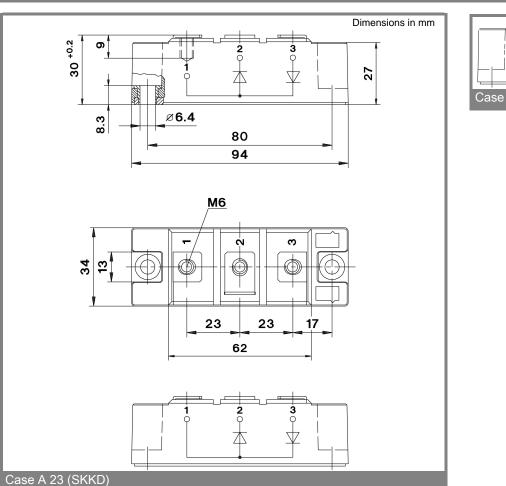
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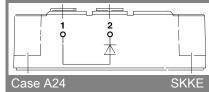






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