## SKKD 81



# SEMIPACK<sup>®</sup> 1

**Rectifier Diode Modules** 

#### SKKD 81

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\***

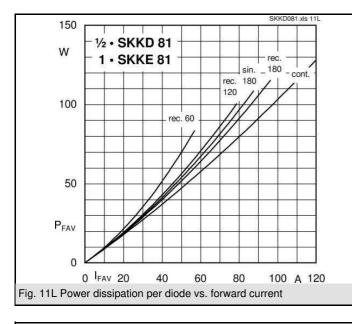
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized
  AC motor controllers
- Field supply for DC motor

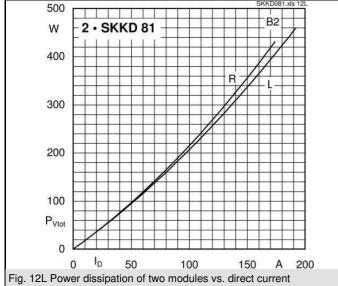
I SKKD 81/04 SKKD 81/06 SKKD 81/08	<sub>FAV</sub> = 80 A (si	n. 180; T <sub>c</sub> :	= 87 °C)	
SKKD 81/06				
SKKD 81/08				
SKKD 81/12				
SKKD 81/14				
SKKD 81/16				
SKKD 81/18				
	SKKD 81/14 SKKD 81/16	SKKD 81/14 SKKD 81/16	SKKD 81/14 SKKD 81/16	SKKD 81/14 SKKD 81/16

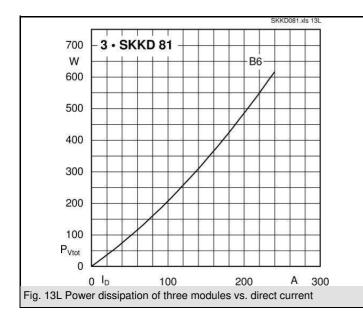
Symbol	Conditions	Values	Units
I <sub>FAV</sub>	sin. 180; T <sub>c</sub> = 85 (100) °C	82 (57)	Α
I <sub>D</sub>	P3/120; T <sub>a</sub> = 45 °C; B2 / B6	63 / 70	A
	P3/180F; T <sub>a</sub> = 35 °C; B2 / B6	135 / 175	А
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	2000	A
	T <sub>vi</sub> = 125 °C; 10 ms	1750	A
i²t	T <sub>vj</sub> = 25 °C; 8,3 10 ms	20000	A²s
	T <sub>vj</sub> = 125 °C; 8,3 10 ms	15000	A²s
V <sub>F</sub>	T <sub>vi</sub> = 25 °C; I <sub>F</sub> = 300 A	max. 1,55	V
V <sub>(TO)</sub>	T <sub>vi</sub> = 125 °C	max. 0,85	V
r <sub>T</sub>	T <sub>vj</sub> = 125 °C	max. 1,8	mΩ
I <sub>RD</sub>	T <sub>vj</sub> = 125 °C; V <sub>RD</sub> = V <sub>RRM</sub>	max. 4,5	mA
R <sub>th(j-c)</sub>	per diode / per module	0,4 / 0,2	K/W
R <sub>th(c-s)</sub>	per diode / per module	0,2 / 0,1	K/W
T <sub>vj</sub>		- 40 + 125	°C
T <sub>stg</sub>		- 40 + 125	°C
V <sub>isol</sub>	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	V~
M <sub>s</sub>	to heatsink	5 ± 15 %	Nm
M <sub>t</sub>	to terminals	3 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	95	g
Case	SKKD	A 10	

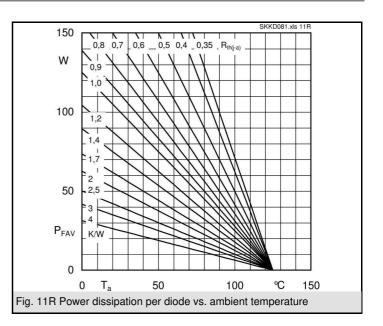


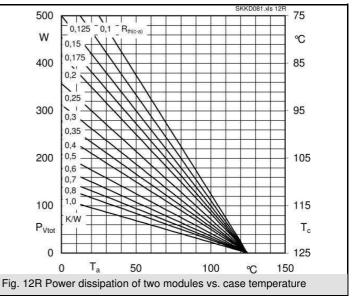


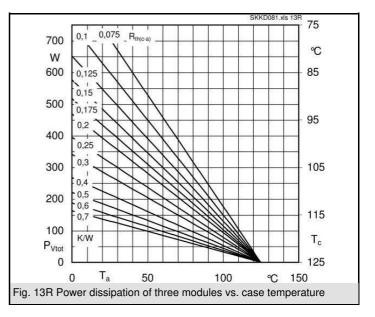




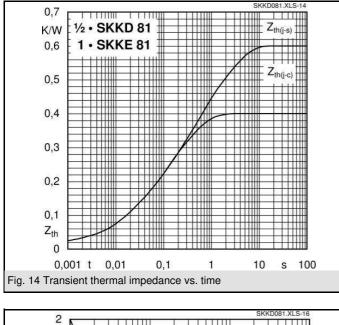


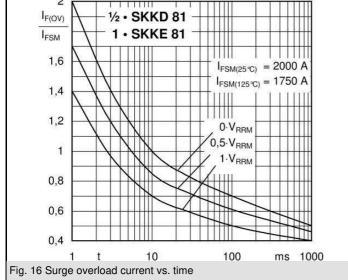


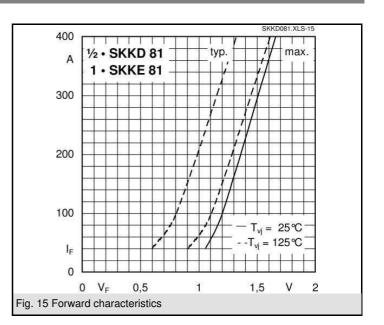




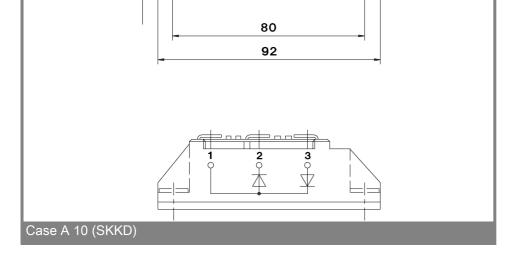
## **SKKD 81**







Dimensions in mm М5 20 20 ດ **2** 0 3 30 1 木 6 S ö 24,5 12.4 2 3 12.5 20



\* 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 personal.

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