# **SKKD 81 H4**



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SEMI	PACK	ן ע

V <sub>RSM</sub>	$V_{RRM}$	I <sub>FRMS</sub> = 140 A (maximum value for continuous operation)		
V	V	I <sub>FAV</sub> = 80 A (sin. 180; T <sub>c</sub> = 87 °C)		
2100	2000	SKKD 81/20 H4		
2300	2200	SKKD 81/22 H4		

### **Rectifier Diode Modules**

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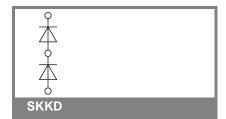
#### **Features**

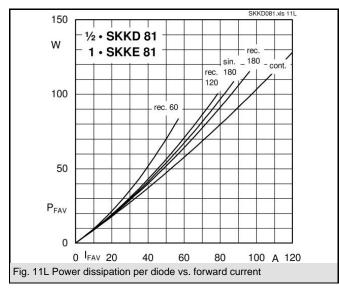
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

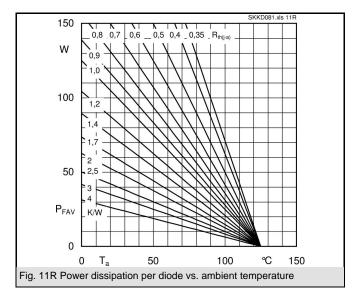
## Typical Applications\*

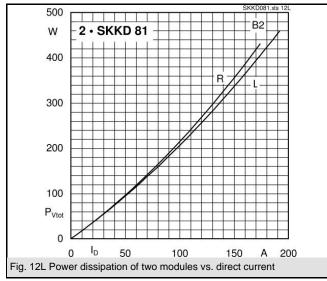
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors
- · Free-wheeling diodes

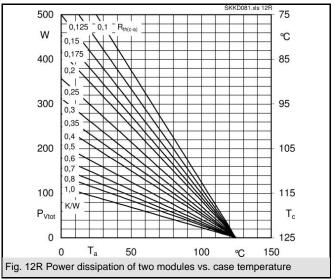
Symbol	Conditions	Values	Units
I <sub>FAV</sub>	sin. 180; T <sub>c</sub> = 85 (100) °C	82 (57)	Α
$I_D$	P3/120; T <sub>a</sub> = 45 °C; B2 / B6	63 / 70	Α
	P3/180F; T <sub>a</sub> = 35 °C; B2 / B6	135 / 175	Α
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	2000	Α
	$T_{vj} = 125 ^{\circ}\text{C}; 10 \text{ms}$	1750	Α
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>vj</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	$m\Omega$
$I_{RD}$	$T_{vj} = 125 ^{\circ}\text{C}; V_{RD} = V_{RRM}$	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
$T_{vj}$		- 40 <b>+</b> 125	°C
T <sub>stg</sub>		- 40 + 125	°C
V <sub>isol</sub>	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	4800 / 4000	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	

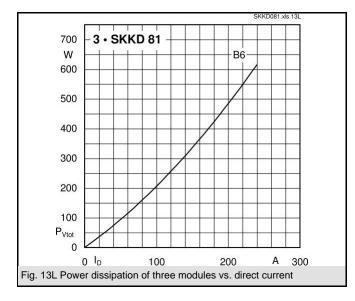


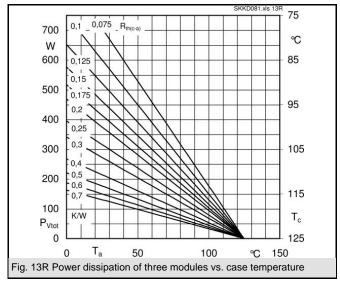




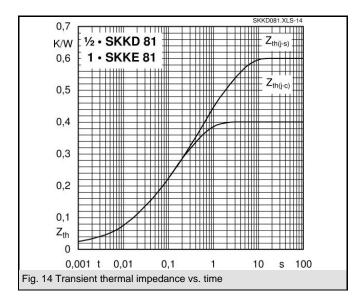


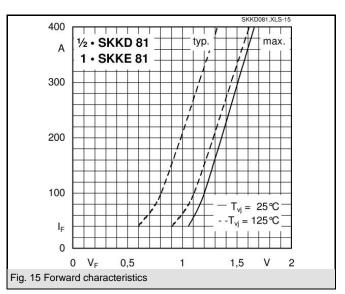


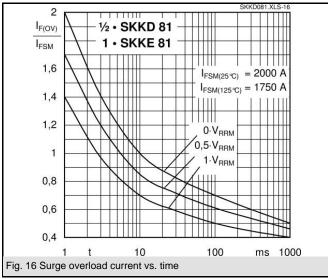


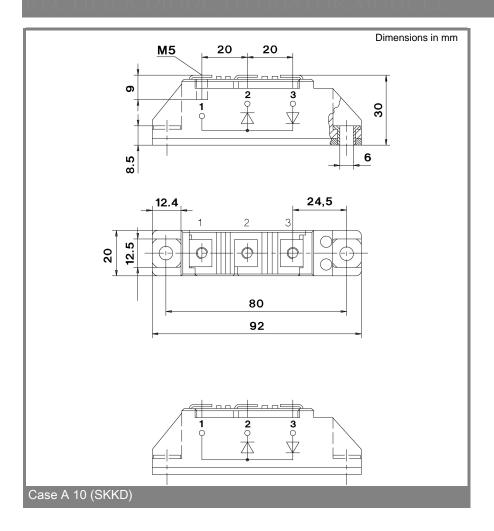


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<sup>\*</sup> The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our personal.