## **SKKE 81**



$V_{RRM}$	I <sub>FRMS</sub> = 140 A (maximum value for continuous operation)		
V	I <sub>FAV</sub> = 80 A (sin. 180; T <sub>c</sub> = 87 °C)		
400	SKKE 81/04		
600	SKKE 81/06		
800	SKKE 81/08		
1200	SKKE 81/12		
1400	SKKE 81/14		
1600	SKKE 81/16		
1800	SKKE 81/18		
2000	SKKE 81/20 H4		
2200	SKKE 81/22 H4		
	V 400 600 800 1200 1400 1600 1800 2000		

### **Rectifier Diode Modules**

#### **SKKE 81**

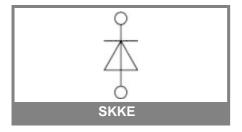
#### **Features**

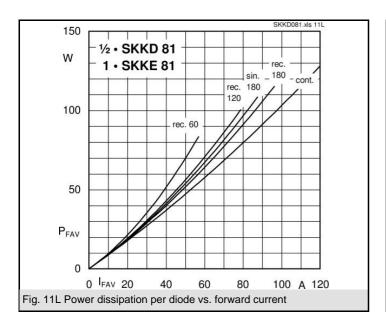
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

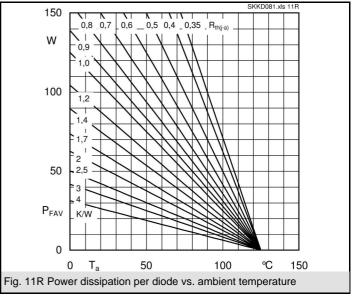
### **Typical Applications\***

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

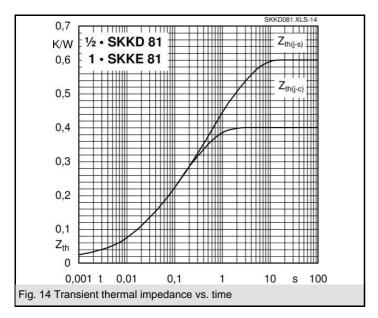
Symbol	Conditions	Values	Units
I <sub>FAV</sub>	sin. 180; T <sub>c</sub> = 85 (100) °C	82 (57)	Α
I <sub>D</sub>	P3/120; T <sub>a</sub> = 45 °C; B2 / B6	63 / 70	Α
	P3/180F; T <sub>a</sub> = 35 °C; B2 / B6	135 / 175	Α
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	2000	Α
	T <sub>vi</sub> = 125 °C; 10 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>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>vi</sub> = 125 °C	max. 1,8	mΩ
$I_{RD}$	$T_{vj} = 125 ^{\circ}\text{C};  V_{RD} = V_{RRM}$	max. 4,5	mA
R <sub>th(j-c)</sub>	per diode / per module	0,4 / 0,4	K/W
R <sub>th(c-s)</sub>	per diode / per module	0,2 / 0,2	K/W
$T_{vj}$		- 40 <b>+</b> 125	°C
T <sub>stg</sub>		- 40 <b>+</b> 125	°C
V <sub>isol</sub>	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	V~
V <sub>isol</sub>	a. c. 50 Hz; r.m.s.; 1 s / 1 min. for SKKH4	4800 / 4000	V~
M <sub>s</sub>	to heatsink	5 ± 15 %	Nm
M <sub>t</sub>	to terminals	3 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	95	g
Case	SKKE	A 12	

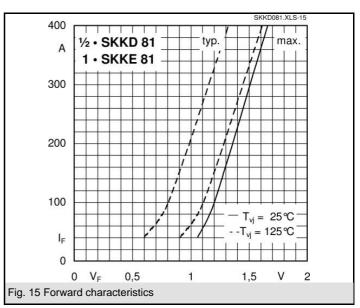


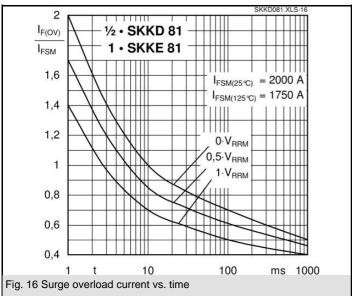


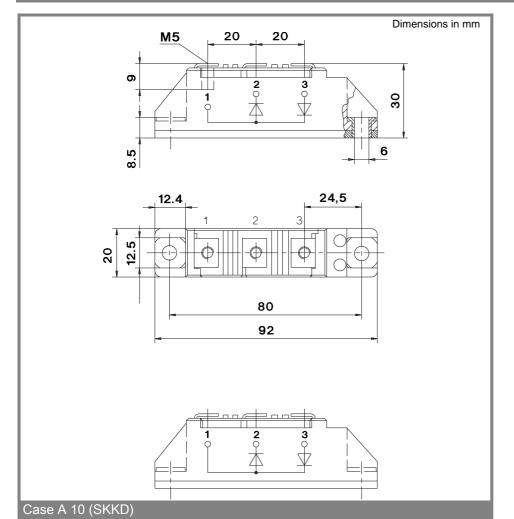


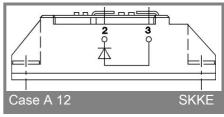
# **SKKE 81**











4 09-07-2009 SPO © by SEMIKRON

<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.