## **SKKD 46**



# SEMIPACK<sup>®</sup> 1

### **Rectifier Diode Modules**

#### **SKKD 46**

#### **Features**

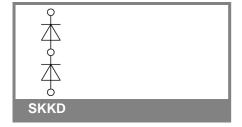
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E 63 532

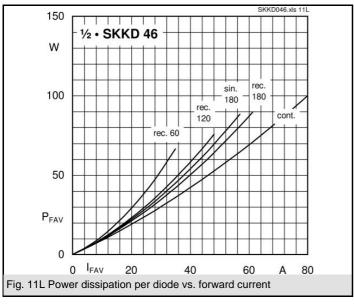
### **Typical Applications\***

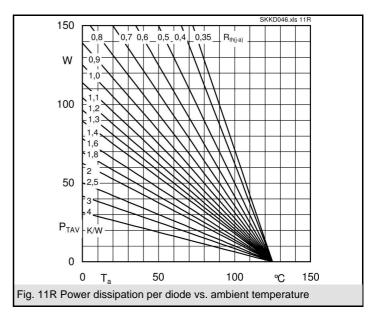
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

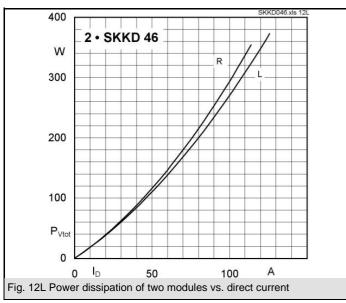
V <sub>RSM</sub>	$V_{RRM}$	I <sub>FRMS</sub> = 90 A (maximum value for continuous operation)		
V	V	$I_{FAV}$ = 45 A (sin. 180; $T_c$ = 86 °C)		
500	400	SKKD 46/04		
700	600	SKKD 46/06		
900	800	SKKD 46/08		
1300	1200	SKKD 46/12		
1500	1400	SKKD 46/14		
1700	1600	SKKD 46/16		
1900	1800	SKKD 46/18		

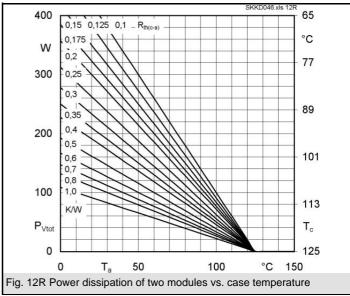
Symbol	Conditions	Values	Units
I <sub>FAV</sub>	sin. 180; T <sub>c</sub> = 85 (100) °C	47 (33)	Α
I <sub>D</sub>	P3/120; T <sub>a</sub> = 45 °C; B2 / B6	50 / 60	Α
	P3/180F; T <sub>a</sub> = 35 °C; B2 / B6	95 / 120	А
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	700	Α
	T <sub>vi</sub> = 125 °C; 10 ms	600	Α
i²t	T <sub>vi</sub> = 25 °C; 8,3 10 ms	2450	A²s
	T <sub>vj</sub> = 125 °C; 8,3 10 ms	1800	A²s
V <sub>F</sub>	T <sub>vi</sub> = 25 °C; I <sub>F</sub> = 250 A	max. 1,95	V
$V_{(TO)}$	T <sub>vi</sub> = 125 °C	max. 0,85	V
r <sub>T</sub>	T <sub>vj</sub> = 125 °C	max. 5	mΩ
$I_{RD}$	$T_{vj} = 125 ^{\circ}\text{C};  V_{RD} = V_{RRM}$	max. 3	mA
R <sub>th(j-c)</sub>	per diode / per module	0,6 / 0,3	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 <b>+</b> 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
Mt	to terminals	3 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	95	g
Case		A 10	

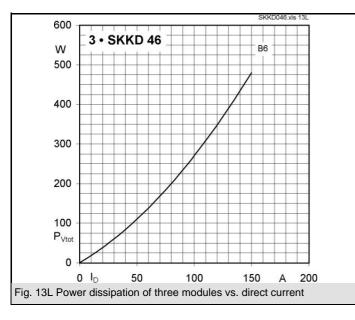


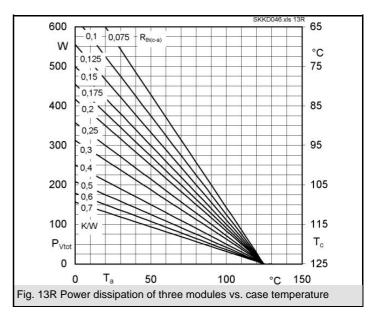




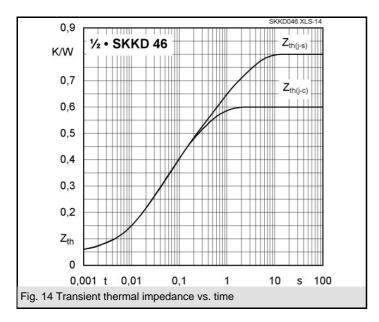


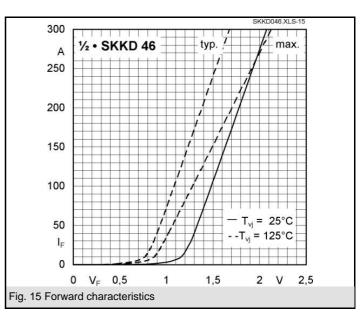


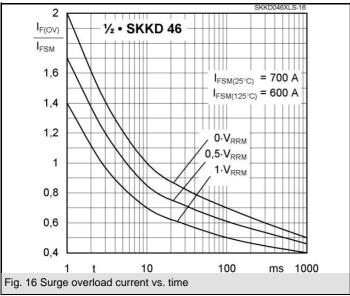


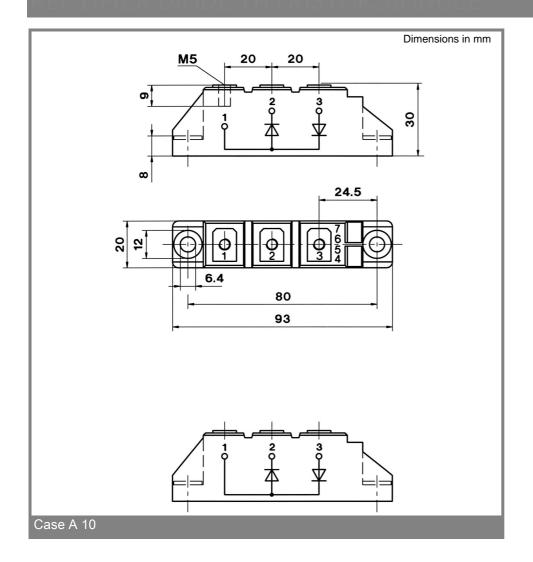


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<sup>\*</sup> The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support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

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