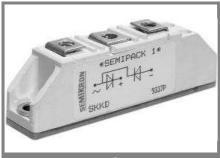
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 V_{RSM}

 V_{RRM}

V	V	I _{FAV} = 80 A (sin. 180; T _c = 87 °C)
2100 2300	2000 2200	SKKD 81/20 H4 SKKD 81/22 H4

I_{FRMS} = 140 A (maximum value for continuous operation)

SEMIPACK® 1

Rectifier Diode Modules

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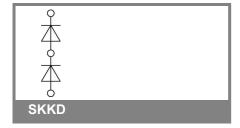
Features

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

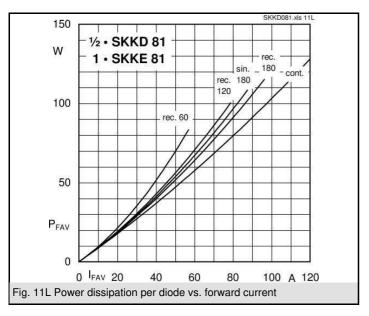
Typical Applications*

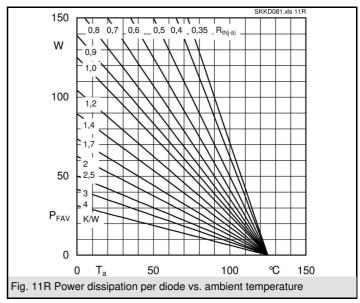
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors
- · Free-wheeling diodes

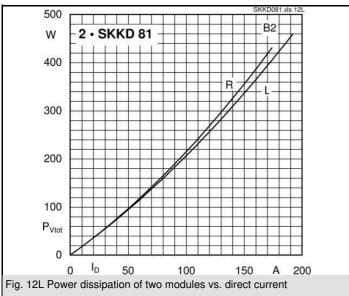
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	82 (57)	Α
I_D	P3/120; T _a = 45 °C; B2 / B6	63 / 70	Α
	P3/180F; T _a = 35 °C; B2 / B6	135 / 175	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	2000	Α
	T _{vi} = 125 °C; 10 ms	1750	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	20000	A²s
	T _{vj} = 125 °C; 8,3 10 ms	15000	A²s
V_{F}	T _{vi} = 25 °C; I _F = 300 A	max. 1,55	V
$V_{(TO)}$	T _{vi} = 125 °C	max. 0,85	V
r _T	T _{vj} = 125 °C	max. 1,8	mΩ
I_{RD}	$T_{vj} = 125 ^{\circ}\text{C}; V_{RD} = V_{RRM}$	max. 4,5	mA
R _{th(j-c)}	per diode / per module	0,4 / 0,2	K/W
R _{th(c-s)}	per diode / per module	0,2 / 0,1	K/W
T _{vj}		- 40 + 125	°C
T _{stg}		- 40 + 125	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	4800 / 4000	V~
M _s	to heatsink	5 ± 15 %	Nm
M _t	to terminals	3 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	95	g
Case	SKKD	A 10	

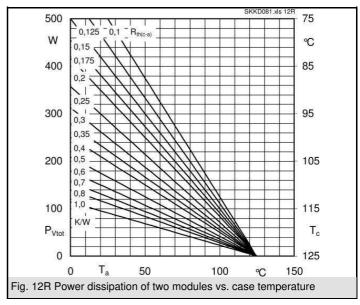


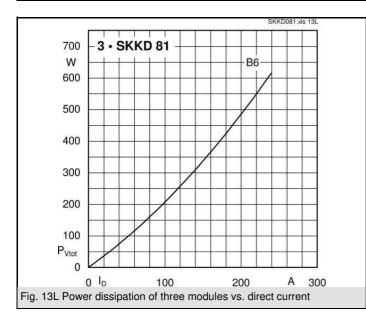
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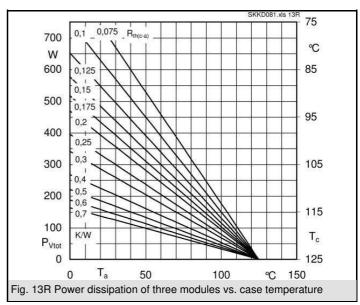




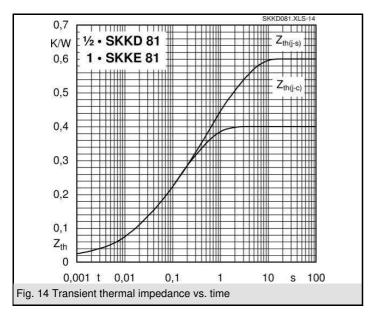


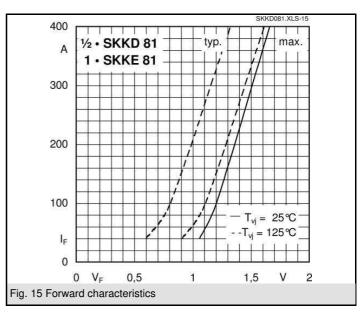


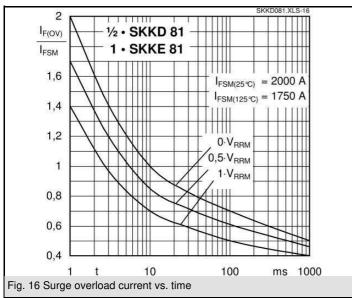


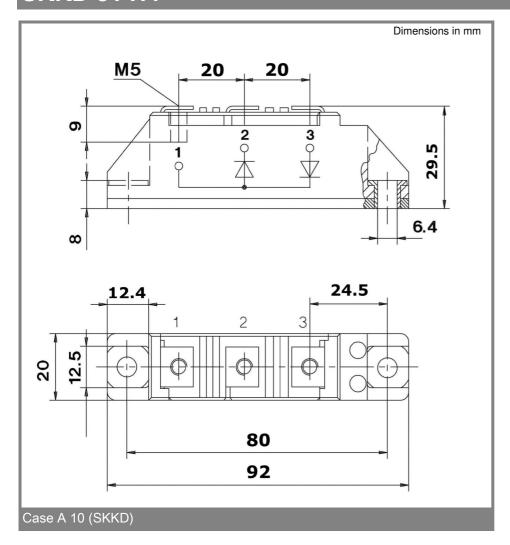


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