



SEMIPACK® 1

Rectifier Diode Modules

SKKD 100

Features

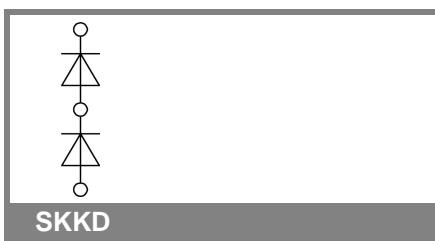
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- SKKD half bridge connection center-tap connections
- UL recognized, file no. E 63 532

Typical Applications*

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

V_{RSM}	V_{RRM}	$I_{FRMS} = 175 \text{ A}$ (maximum value for continuous operation)
V	V	$I_{FAV} = 100 \text{ A}$ (sin. 180; $T_c = 85^\circ\text{C}$)
500	400	SKKD 100/04
900	800	SKKD 100/08
1300	1200	SKKD 100/12
1500	1400	SKKD 100/14
1700	1600	SKKD 100/16
1900	1800	SKKD 100/18

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; $T_c = 85$ (100) $^\circ\text{C}$	100 (67)	A
I_D	P3/180; $T_a = 45^\circ\text{C}$; B2 / B6	73 / 91	A
	P3/180F; $T_a = 35^\circ\text{C}$; B2 / B6	150 / 190	A
I_{FSM}	$T_{vj} = 25^\circ\text{C}$; 10 ms $T_{vj} = 125^\circ\text{C}$; 10 ms	2500	A
i^2t	$T_{vj} = 25^\circ\text{C}$; 8,3 ... 10 ms $T_{vj} = 125^\circ\text{C}$; 8,3 ... 10 ms	2000 31250 20000	A ² s
V_F	$T_{vj} = 25^\circ\text{C}$; $I_F = 300 \text{ A}$	max. 1,35	V
$V_{(TO)}$	$T_{vj} = 125^\circ\text{C}$	max. 0,85	V
r_T	$T_{vj} = 125^\circ\text{C}$	max. 1,3	m Ω
I_{RD}	$T_{vj} = 125^\circ\text{C}$; $V_{RD} = V_{RRM}$	max. 5	mA
$R_{th(j-c)}$	per diode / per module	0,35 / 0,175	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.	3600 / 3000	V~
M_s	to heatsink	5 ± 15 %	Nm
M_t	to terminals	3 ± 15 %	Nm
a		5 * 9,81	m/s ²
m	approx.	95	g
Case	SKKD	A 10	



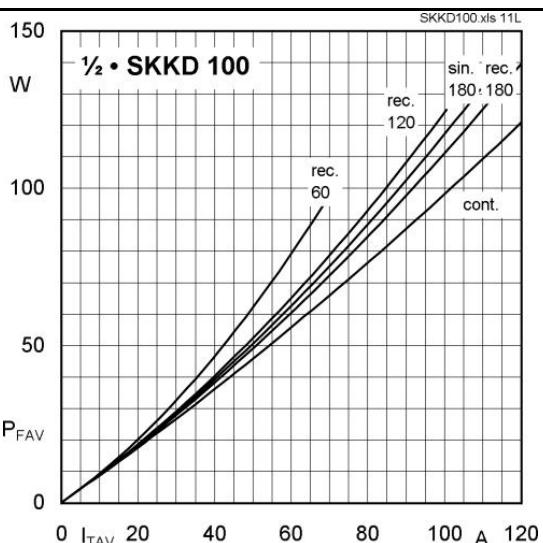


Fig. 11L Power dissipation per diode vs. forward current

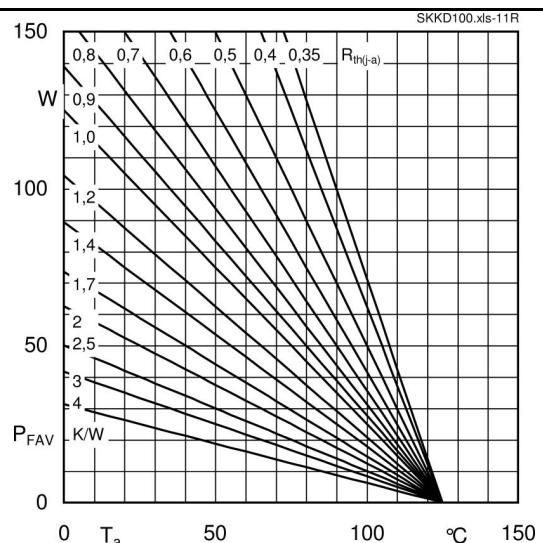


Fig. 11R Power dissipation per diode vs. ambient temperature

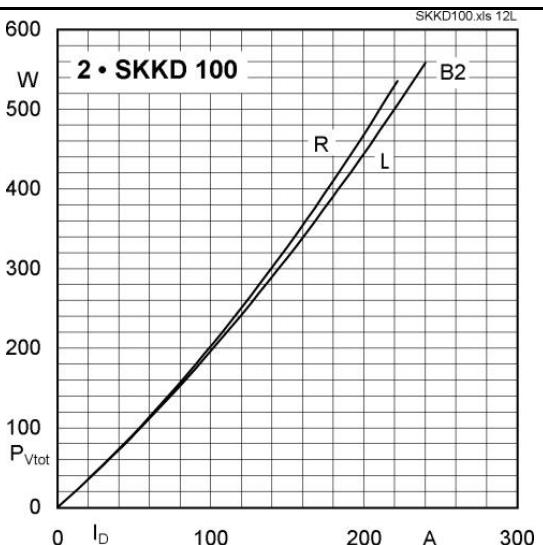


Fig. 12L Power dissipation of two modules vs. direct current

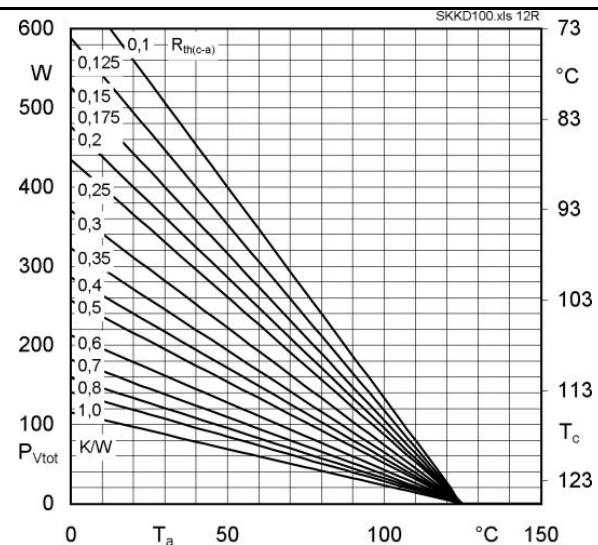


Fig. 12R Power dissipation of two modules vs. case temperature

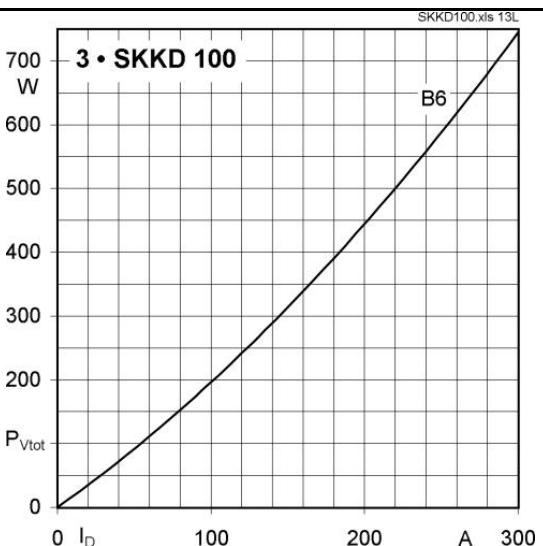


Fig. 13L Power dissipation of three modules vs. direct current

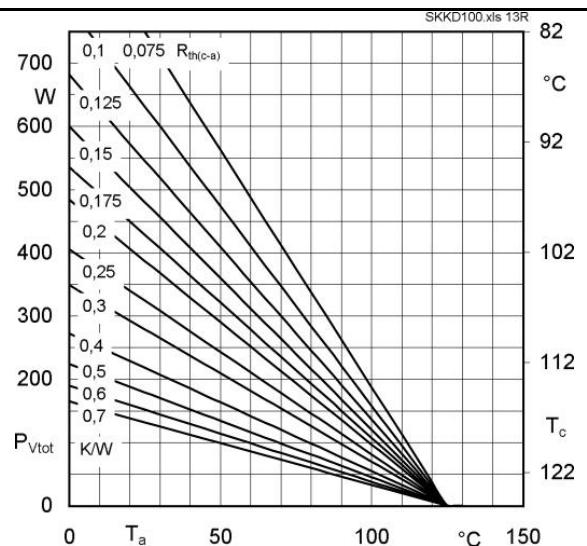


Fig. 13R Power dissipation of three modules vs. case temperature

SKKD 100 THYRISTOR BRIDGE,SCR,BRIDGE

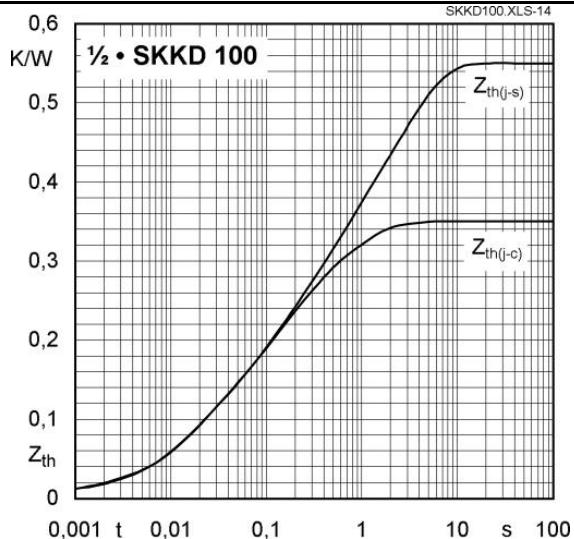


Fig. 14 Transient thermal impedance vs. time

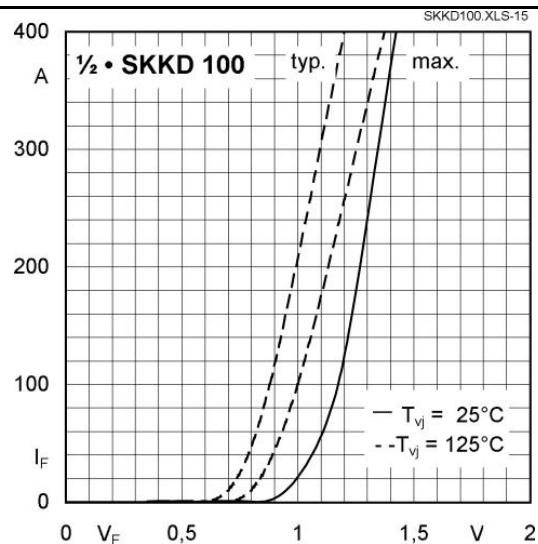


Fig. 15 Forward characteristics

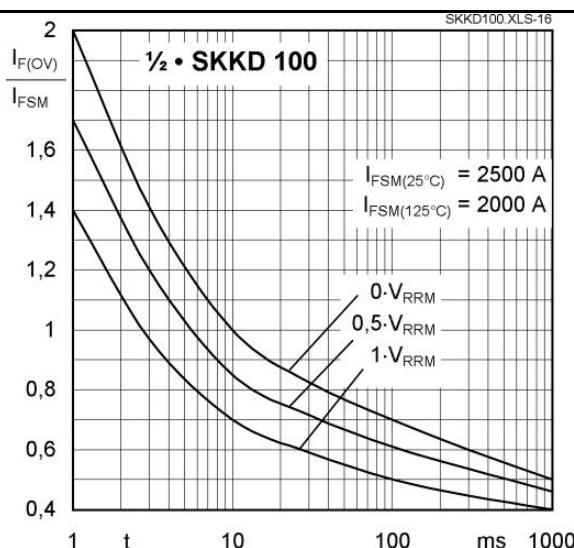
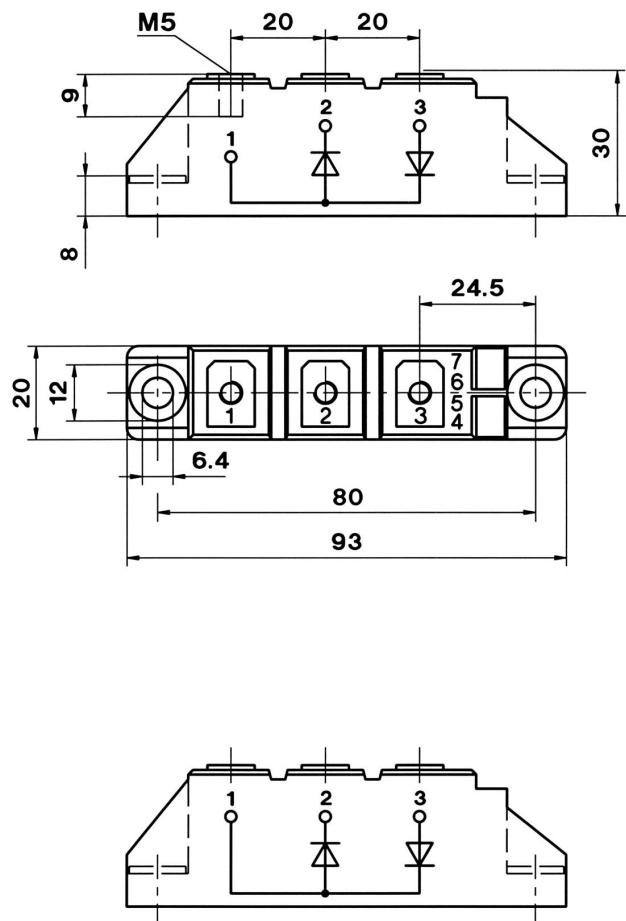


Fig. 16 Surge overload current vs. time

Dimensions in mm



Case A 10 (SKKD)

* 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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [semikron manufacturer:](#)

Other Similar products are found below :

[SKD 60/12](#) [SKKT 162/12 E](#) [SKKT 42B12 E](#) [SKKT 92B12E](#) [SKM 200GAR125D](#) [SKM200GB12T4](#) [SKCH 40/16](#) [SKKT 92/18E](#) [SKYPER 32 R](#) [SKKH 27/16E](#) [SKKD 380/16 BI25/12](#) [SKD 110/08](#) [SKD 62/12](#) [SKIIP25AC126V1 M20](#) [SKIIP 36NAB126V1 M20](#) [SKKD 162/20H4 SKKD 380/08](#) [SKKH 72/20E H4](#) [SKKT 250/12E](#) [SKN71/02](#) [SKN 100/12](#) [SKN 100/14](#) [SKR 100/08](#) [SKIIP 24AC12T4V1 M20](#) [SKIIP 28AHB16V1 M20](#) [SKIIP 28ANB16V2 M20](#) [SKIIP 35NAB126V10 M20](#) [SKKH 570/16E](#) [SKKE 380/16](#) [SKR 130/14](#) [SKR 130/18](#) [SKKD 26/14](#) [SKM 400GAL12E4](#) [SKPC100Z-440](#) [SK 25 UT 12](#) [SKR70/04](#) [SKD35/16](#) [SKKT 42/08E](#) [SKCH 40/08](#) [SKD 62/18](#) [SKD 82/08](#) [SKIIP 23NAB126V1 M20](#) [SKKQ 1200/14E](#) [SKR 60F12](#) [SKR 100/04](#) [SKR 100/12](#) [SKIIP 37AC12T4V1 M20](#) [SKD 60/16](#) [SKD 62/08](#)