SKKD 100



SEMIPACK[®] 1

Rectifier Diode Modules

SKKD 100

Features

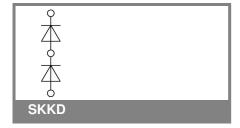
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- SKKD half bridge connection center-tap connections
- UL recognized, file no. E 63 532

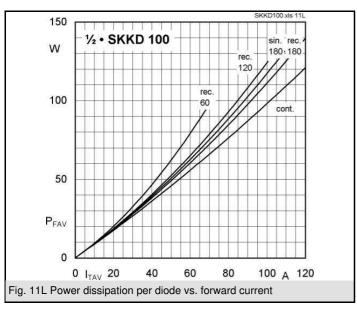
Typical Applications*

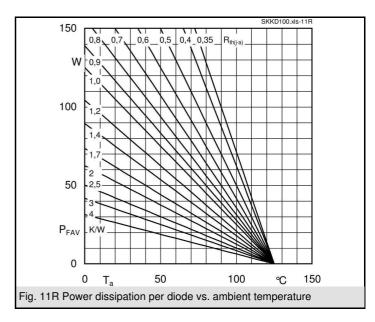
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

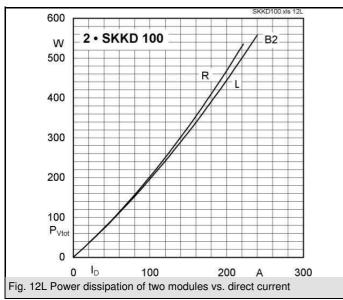
V $I_{FAV} = 100 \text{ A (sin. 180; T}_{c} = 85 ^{\circ}\text{C})$	
900 800 SKKD 100/08	
1300 1200 SKKD 100/12	
1500 1400 SKKD 100/14	
1700 1600 SKKD 100/16	
1900 1800 SKKD 100/18	

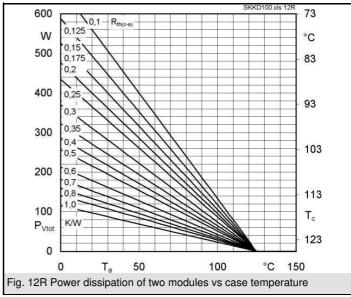
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	100 (67)	Α
I_D	P3/180; T _a = 45 °C; B2 / B6	73 / 91	Α
	P3/180F; T _a = 35 °C; B2 / B6	150 / 190	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	2500	Α
	$T_{vj} = 125 ^{\circ}\text{C}; 10 \text{ms}$	2000	Α
i²t	$T_{vj} = 25 ^{\circ}\text{C}; 8,3 \dots 10 \text{ms}$	31250	A²s
	T _{vj} = 125 °C; 8,3 10 ms	20000	A²s
V _F	T _{vj} = 25 °C; I _F = 300 A	max. 1,35	V
V _(TO)	T _{vj} = 125 °C	max. 0,85	V
r _T	T _{vj} = 125 °C	max. 1,3	mΩ
I_{RD}	T_{vj} = 125 °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
а		5 * 9,81	m/s²
m	approx.	95	g
Case	SKKD	A 10	
ı			

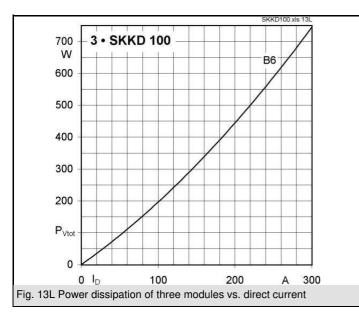


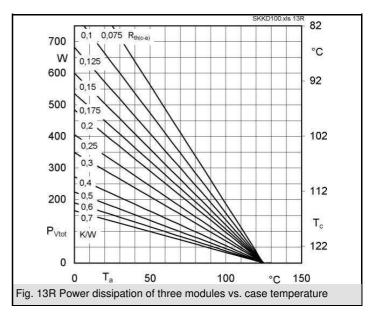




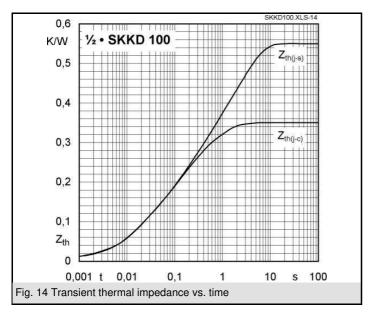


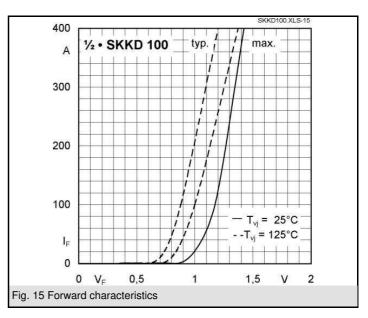


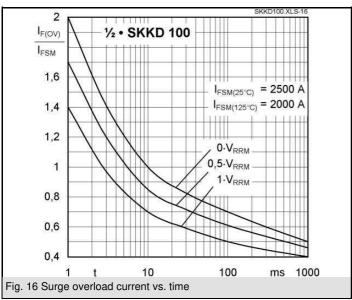


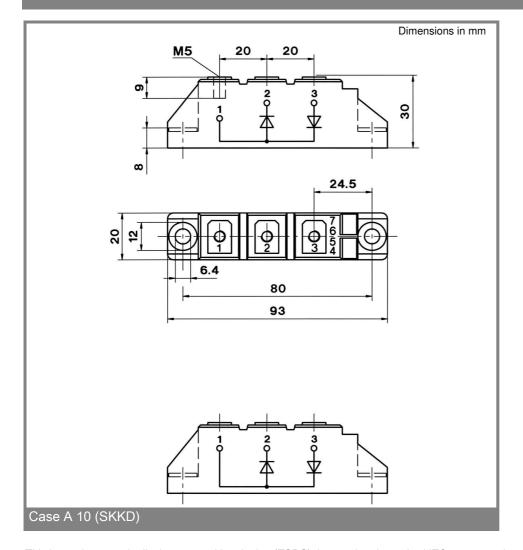


SKKD 100









This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, chapter IX.

*IMPORTANT INFORMATION AND WARNINGS

The specifications of SEMIKRON products may not be considered as guarantee or assurance of product characteristics ("Beschaffenheitsgarantie"). The specifications of SEMIKRON products describe only the usual characteristics of products to be expected in typical applications, which may still vary depending on the specific application. Therefore, products must be tested for the respective application in advance. Application adjustments may be necessary. The user of SEMIKRON products is responsible for the safety of their applications embedding SEMIKRON products and must take adequate safety measures to prevent the applications from causing a physical injury, fire or other problem if any of SEMIKRON products become faulty. The user is responsible to make sure that the application design is compliant with all applicable laws, regulations, norms and standards. Except as otherwise explicitly approved by SEMIKRON in a written document signed by authorized representatives of SEMIKRON, SEMIKRON products may not be used in any applications where a failure of the product or any consequences of the use thereof can reasonably be expected to result in personal injury. No representation or warranty is given and no liability is assumed with respect to the accuracy, completeness and/or use of any information herein, including without limitation, warranties of non-infringement of intellectual property rights of any third party. SEMIKRON does not assume any liability arising out of the applications or use of any product; neither does it convey any license under its patent rights, copyrights, trade secrets or other intellectual property rights, nor the rights of others. SEMIKRON makes no representation or warranty of non-infringement or alleged non-infringement of intellectual property rights of any third party which may arise from applications. Due to technical requirements our products may contain dangerous substances. For information on the types in question please contact the nearest SEMIKRON sales office. This document supersedes and replaces all information previously supplied and may be superseded by updates. SEMIKRON reserves the right to make changes.