SKKD 100, SKMD 100



SEMIPACK[®] 1

Rectifier Diode Modules

SKKD 100 SKMD 100

Features

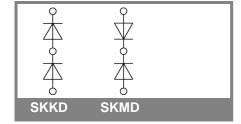
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- SKKD half bridge connection center-tap connections SKMD common cathode
- UL recognized, file no. E 63 532

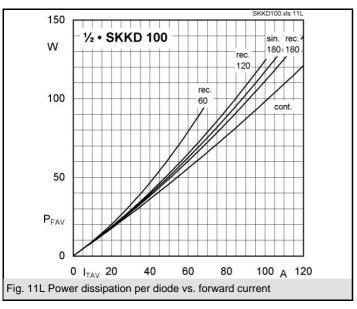
Typical Applications

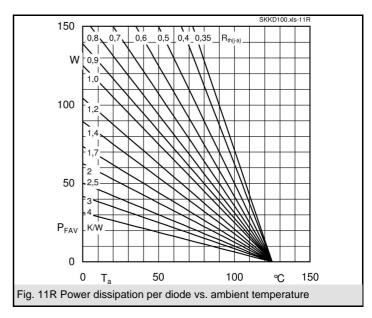
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

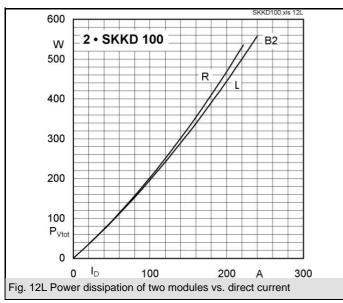
V_{RSM}	V_{RRM}	I _{FRMS} = 175 A (maximum value for continuous operation)		
V	V	I _{FAV} = 100 A (sin. 180; T _c = 85 °C)		
500	400	SKKD 100/04	SKMD 100/04	
900	800	SKKD 100/08	SKMD 100/08	
1300	1200	SKKD 100/12		
1500	1400	SKKD 100/14	SKMD 100/14	
1700	1600	SKKD 100/16	SKMD 100/16	
1900	1800	SKKD 100/18		

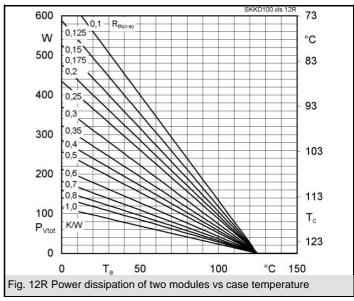
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	100 (67)	Α
I _D	P3/180; T _a = 45 °C; B2 / B6	73 / 91	Α
	P3/180F; T _a = 35 °C; B2 / B6	150 / 190	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	2500	Α
	T _{vi} = 125 °C; 10 ms	2000	Α
i²t	T_{vj}^{2} = 25 °C; 8,3 10 ms	31250	A²s
	T _{vj} = 125 °C; 8,3 10 ms	20000	A²s
V_{F}	T _{vi} = 25 °C; I _F = 300 A	max. 1,35	V
$V_{(TO)}$	T _{vi} = 125 °C	max. 0,85	V
r _T	T _{vj} = 125 °C	max. 1,3	mΩ
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/s²
m	approx.	95	g
Case	SKKD	A 10	
	SKMD	A 33	

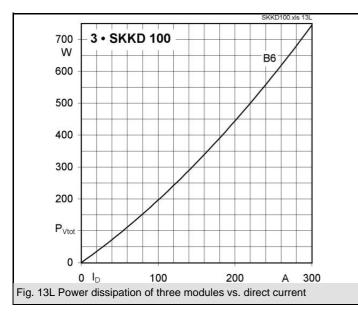


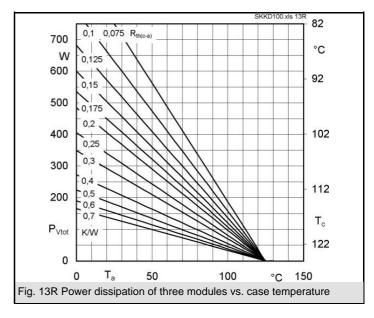




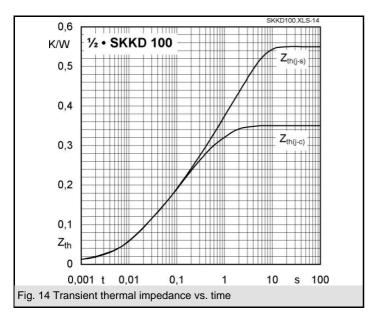


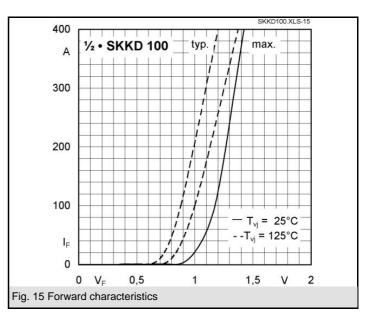


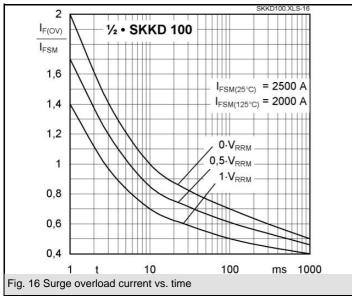


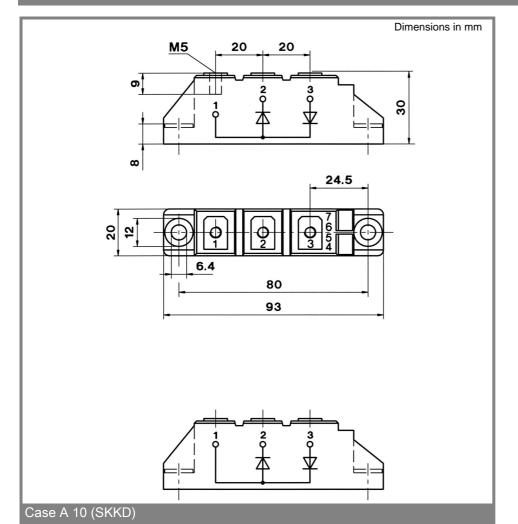


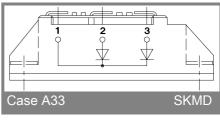
SKKD 100, SKMD 100











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