## SKKD 100, SKMD 100



## SEMIPACK<sup>®</sup> 1

### **Rectifier Diode Modules**

SKKD 100 SKMD 100

#### **Features**

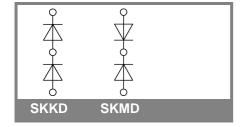
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability
- SKKD half bridge connection center-tap connections SKMD common cathode
- UL recognized, file no. E 63 532

### **Typical Applications**

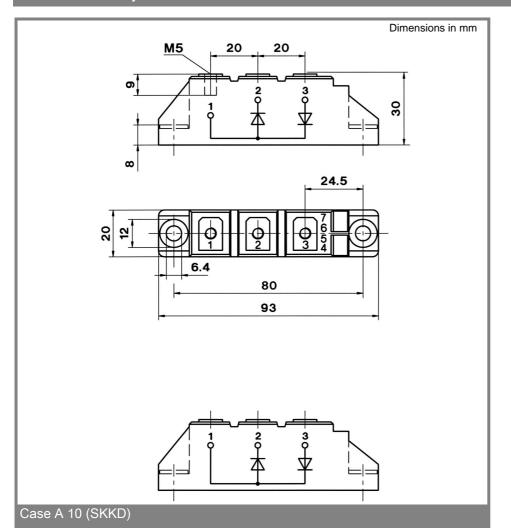
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

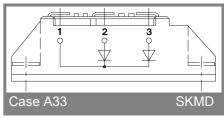
$V_{RSM}$	$V_{RRM}$	I <sub>FRMS</sub> = 175 A (maximum value for continuous operation)		
V	V	I <sub>FAV</sub> = 100 A (sin. 180; T <sub>c</sub> = 85 °C)		
500	400	SKKD 100/04	SKMD 100/04	
900	800	SKKD 100/08	SKMD 100/08	
1300	1200	SKKD 100/12		
1500	1400	SKKD 100/14	SKMD 100/14	
1700	1600	SKKD 100/16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

Symbol	Conditions	Values	Units
I <sub>FAV</sub>	sin. 180; T <sub>c</sub> = 85 (100) °C	100 (67)	Α
I <sub>D</sub>	P3/180; T <sub>a</sub> = 45 °C; B2 / B6	73 / 91	Α
	P3/180F; T <sub>a</sub> = 35 °C; B2 / B6	150 / 190	Α
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	2500	Α
	T <sub>vi</sub> = 125 °C; 10 ms	2000	Α
i²t	T <sub>vj</sub> = 25 °C; 8,3 10 ms	31250	A²s
	T <sub>vj</sub> = 125 °C; 8,3 10 ms	20000	A²s
V <sub>F</sub>	T <sub>vi</sub> = 25 °C; I <sub>F</sub> = 300 A	max. 1,35	V
$V_{(TO)}$	T <sub>vi</sub> = 125 °C	max. 0,85	V
r <sub>T</sub>	T <sub>vj</sub> = 125 °C	max. 1,3	mΩ
$I_{RD}$	$T_{vj}$ = 125 °C; $V_{RD}$ = $V_{RRM}$	max. 5	mA
R <sub>th(j-c)</sub>	per diode / per module	0,35 / 0,175	K/W
R <sub>th(c-s)</sub>	per diode / per module	0,2 / 0,1	K/W
T <sub>vi</sub>		- 40 <b>+</b> 125	°C
T <sub>stg</sub>		- 40 + 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
M <sub>t</sub>	to terminals	3 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	95	g
Case	SKKD	A 10	
	SKMD	A 33	



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