V_{RSM} V_{RRM}	I_{FRMS} (maximum values for continuous operation) 220 A		
V	I_{FAV} (sin. 180; T_{case} = 85 °C; 50 Hz) 117 A		
1000	**SKKD 150 F 10**	**SKMD 150 F 10**	**SKND 150 F 10**
1100	**SKKD 150 F 11**	**SKMD 150 F 11**	**SKND 150 F 11**
1200	**SKKD 150 F 12**	**SKMD 150 F 12**	**SKND 150 F 12**

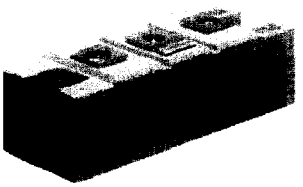
SEMIPACK® 2
Fast Diode[1] Modules

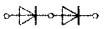
SKKD 150 F
SKMD 150 F
SKND 150 F

Preliminary data

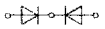
Symbol	Conditions	SKKD 150 F SKMD 150 F SKND 150 F	Units
I_{FAV}	sin. 180; T_{case} = 65 °C	140	A
I_{FSM}	T_{vj} = 25 °C; 10 ms	2 000	A
	T_{vj} = 150 °C; 10 ms	1 800	A
i^2t	T_{vj} = 25 °C; 8,3 ... 10 ms	20 000	A^2s
	T_{vj} = 150 °C; 8,3 ... 10 ms	16 200	A^2s
I_{RM}	T_{vj} = 25 °C; I_F = 150 A	40	A
	T_{vj} = 150 °C; di/dt = 500 A/µs	70	A
t_{rr}	T_{vj} = 25 °C; V_R = 600 V	typ. 180	ns
Q_{rr}	T_{vj} = 150 °C	35	µC
I_R	T_{vj} = 25 °C; V_R = V_{RRM}	1	mA
	T_{vj} = 150 °C; V_R = V_{RRM}	40	mA
V_F	T_{vj} = 25 °C; I_F = 150 A	2,2	V
	T_{vj} = 150 °C; I_F = 150 A	2,0	V
$V_{(TO)}$	T_{vj} = 150 °C	1,2	V
r_T	T_{vj} = 150 °C	5,5	mΩ
R_{thjc}	per diode	0,2	°C/W
	per module	0,1	°C/W
R_{thch}		0,05	°C/W
T_{vj}		– 40 ... +150	°C
T_{stg}		– 40 ... +150	°C
V_{isol}	a. c. 50 Hz; r.m.s; 1 min	4000	V~
M_1	to heatsink SI units	5 ± 15 %	Nm
	to heatsink US units	44 ± 15 %	lb. in
M_2	for terminals SI units	5 ± 15 %	Nm
	for terminals US units	44 ± 15 %	lb. in
w	approx.	250	g
Case	SKKD 150 F	A 53	
	SKMD 150 F	A 51	
	SKND 150 F	A 52	

[1] CAL (controlled axial lifetime) technology, patent No. DE 43 10 44

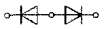




SKKD



SKMD



SKND

Features

- Soft recovery
- Very short recovery times
- Low switching losses
- Up to 1200 V peak inverse voltage
- Heat transfer through ceramic isolated metal baseplate
- **SKKD** half bridge connection centre tap connections: **SKMD** common cathode **SKND** common anode
- UL recognized, file no. E 63532

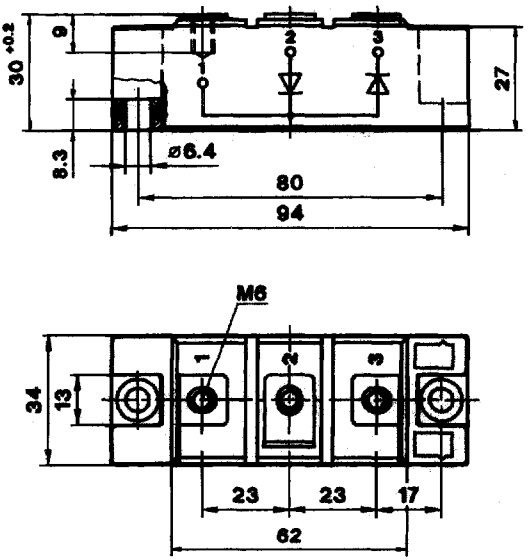
Typical Applications

- Self-commutated inverters
- DC choppers
- AC motor speed control
- Inductive heating
- Uninterruptible power supplies
- Electronic welders
- General power switching applications

SKKD 150 F

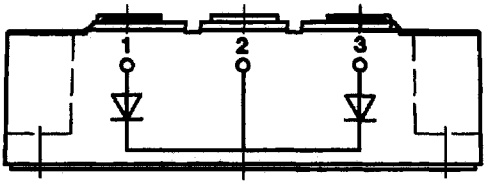
Case A 53

SEMIPACK®2



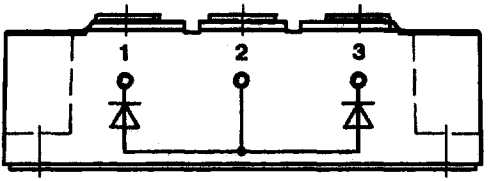
SKMD 150 F

Case A 51



SKND 150 F

Case A 52



Dimensions in mm

