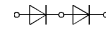


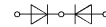
SEMI[®]PACK 2 Fast Diode¹⁾ Modules

SKKD 150 F
SKMD 150 F
SKND 150 F

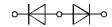
Preliminary data



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

V _{RSM} V _{RRM} V	I _{FRMS} (maximum values for continuous operation) 220 A		
	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

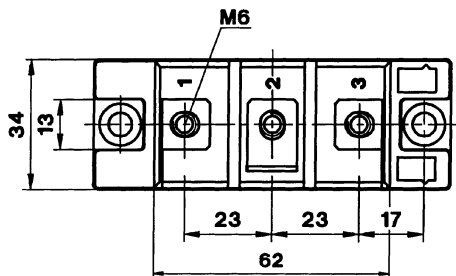
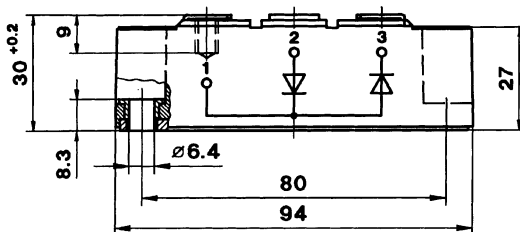
Symbol	Conditions	SKKD 150 F SKMD 150 F SKND 150 F	Units
I _{FAV}	sin. 180; T _{case} = 65 °C	140	A
I _{FSM}	T _{vj} = 25 °C; 10 ms	2 000	A
	T _{vj} = 150 °C; 10 ms	1 800	A
i ² t	T _{vj} = 25 °C; 8,3 ... 10 ms	20 000	A ² s
	T _{vj} = 150 °C; 8,3 ... 10 ms	16 200	A ² s
I _{RM}	T _{vj} = 25 °C	40	A
	T _{vj} = 150 °C	70	A
t _{rr}	T _{vj} = 25 °C	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 % US units 44 ± 15 %	Nm lb. in
M ₂	for terminals	SI units 5 ± 15 % US units 44 ± 15 %	Nm lb. in
w	approx.	250	g
Case	SKKD 150 F SKMD 150 F SKND 150 F	A 53 A 51 A 52	

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

SKKD 150 F

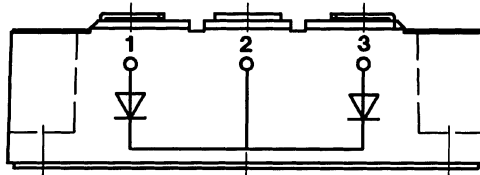
Case A 53

SEMIPACK®2



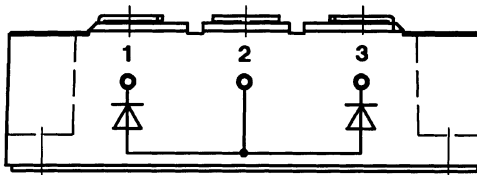
SKMD 150 F

Case A 51



SKND 150 F

Case A 52



Dimensions in mm