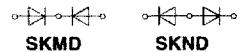
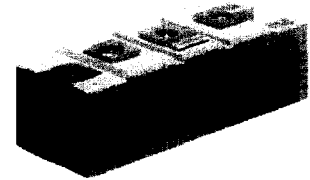


SEMI[®]PACK[®] 2 Fast Diode¹⁾ Modules

SKKD 150 F
SKMD 150 F
SKND 150 F

Preliminary data



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}	I_{FRMS} (maximum values for continuous operation) 220 A		
V	I_{FAV} (sin. 180; $T_{case} = 85^\circ C$; 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

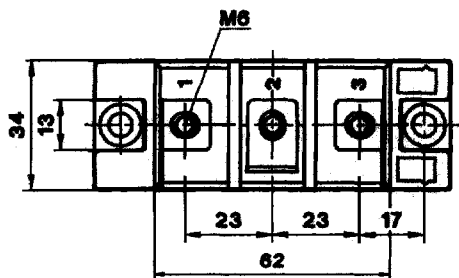
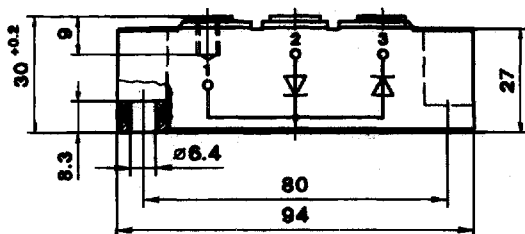
Symbol	Conditions	SKKD 150 F SKMD 150 F SKND 150 F	Units
I_{FAV}	sin. 180; $T_{case} = 65^\circ C$	140	A
I_{FSM}	$T_{vj} = 25^\circ C$; 10 ms $T_{vj} = 150^\circ C$; 10 ms	2 000 1 800	A A
i^2t	$T_{vj} = 25^\circ C$; 8,3 ... 10 ms $T_{vj} = 150^\circ C$; 8,3 ... 10 ms	20 000 16 200	$A^2 s$ $A^2 s$
I_{RM}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

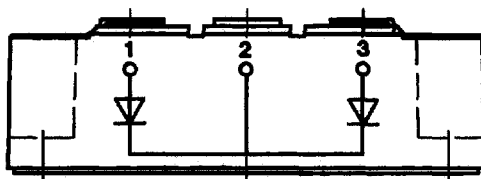
Case A 53

SEMIPACK[®]2



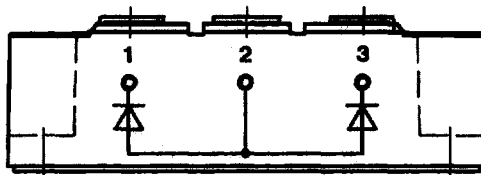
SKMD 150 F

Case A 51



SKND 150 F

Case A 52



Dimensions in mm