

SKKD 150F, SKMD 150F, SKND 150F



SEMIPACK® 2

Fast Diode Modules

SKKD 150F

SKMD 150F

SKND 150F

Features

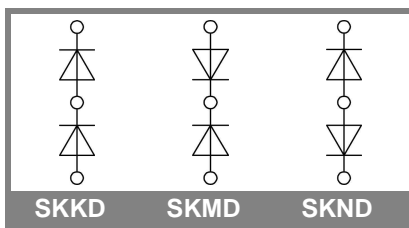
- CAL (controlled axial lifetime) technology, patent No. DE 43 10 44
- Heat transfer through ceramic isolated metal baseplate
- Very short recovery times
- Soft recovery
- Low switching losses
- SKKD half bridge connection
- centre tap connections: SKMD common cathode SKND common anode
- UL recognized, file no. E 63 532

Typical Applications

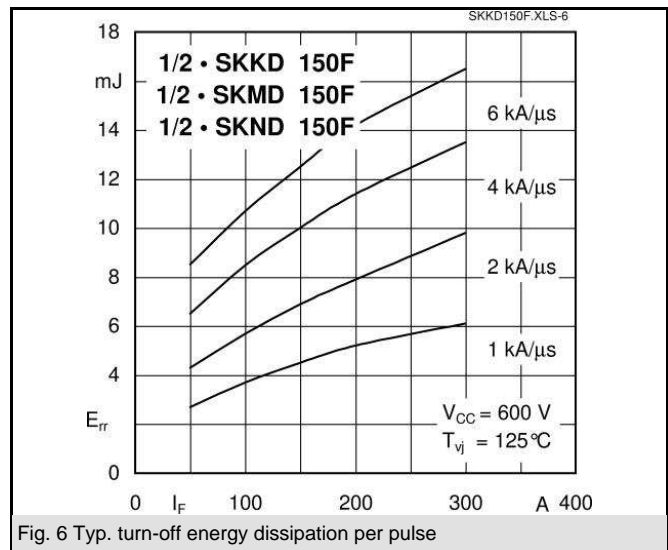
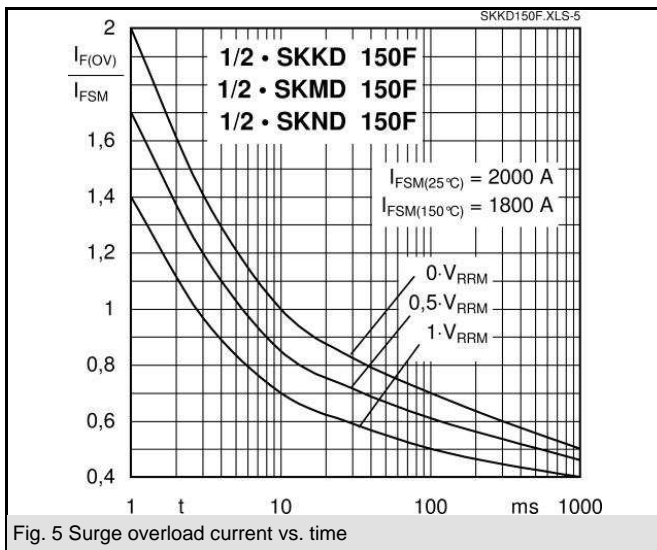
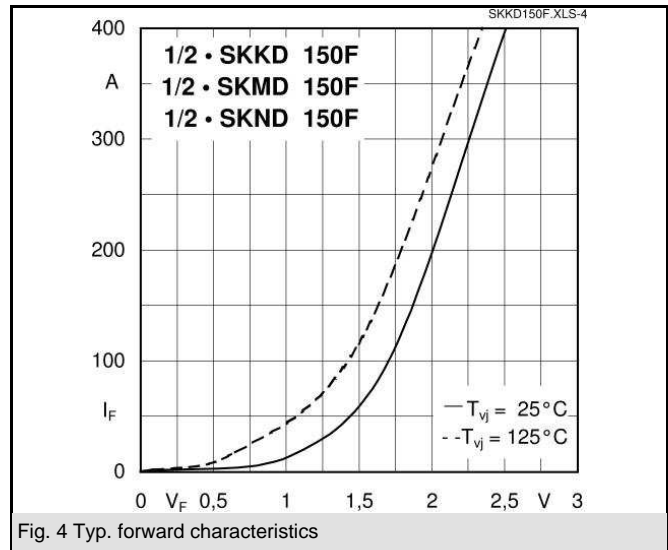
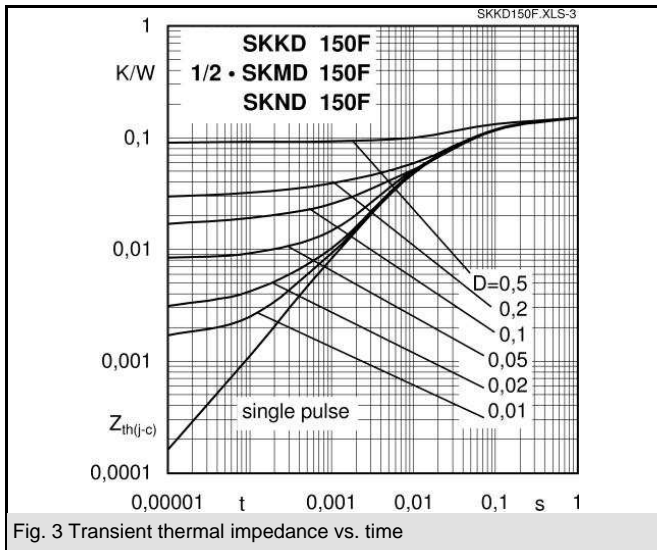
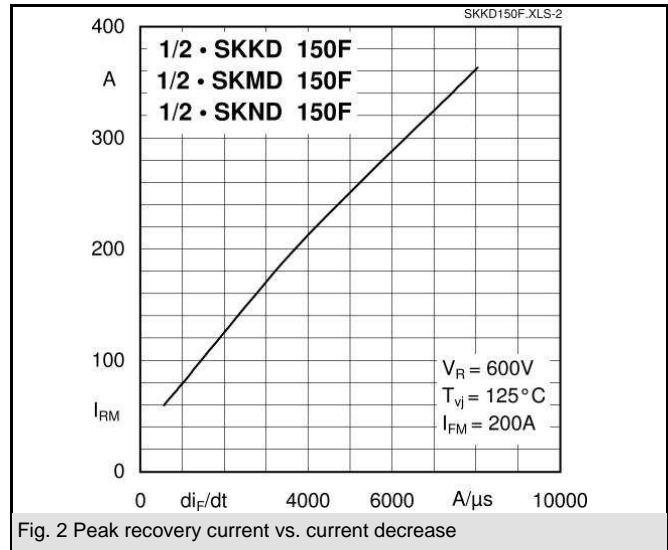
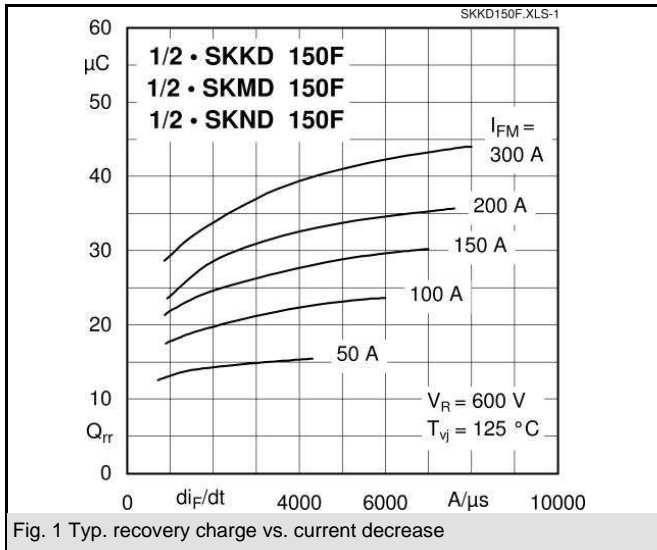
- Self-commutated inverters
- DC choppers
- AC motor speed control
- inductive heating
- Uninterruptible power supplies
- Electronic welders
- General power switching applications

V_{RSM} V	V_{RRM} V	$I_{FRMS} = 220$ A (maximum value for continuous operation) $I_{FAV} = 150$ A (sin. 180; 50 Hz; $T_c = 54$ °C)		
1200	1200	SKKD 150F12	SKMD 150F12	SKND 150F12

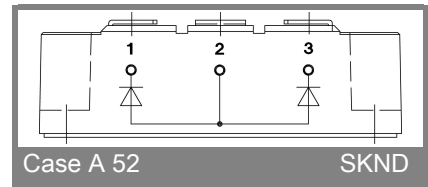
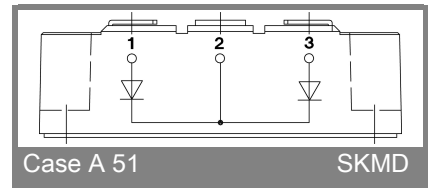
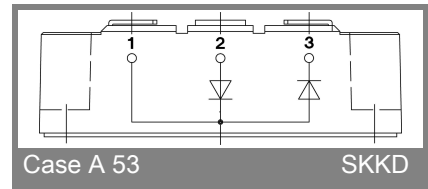
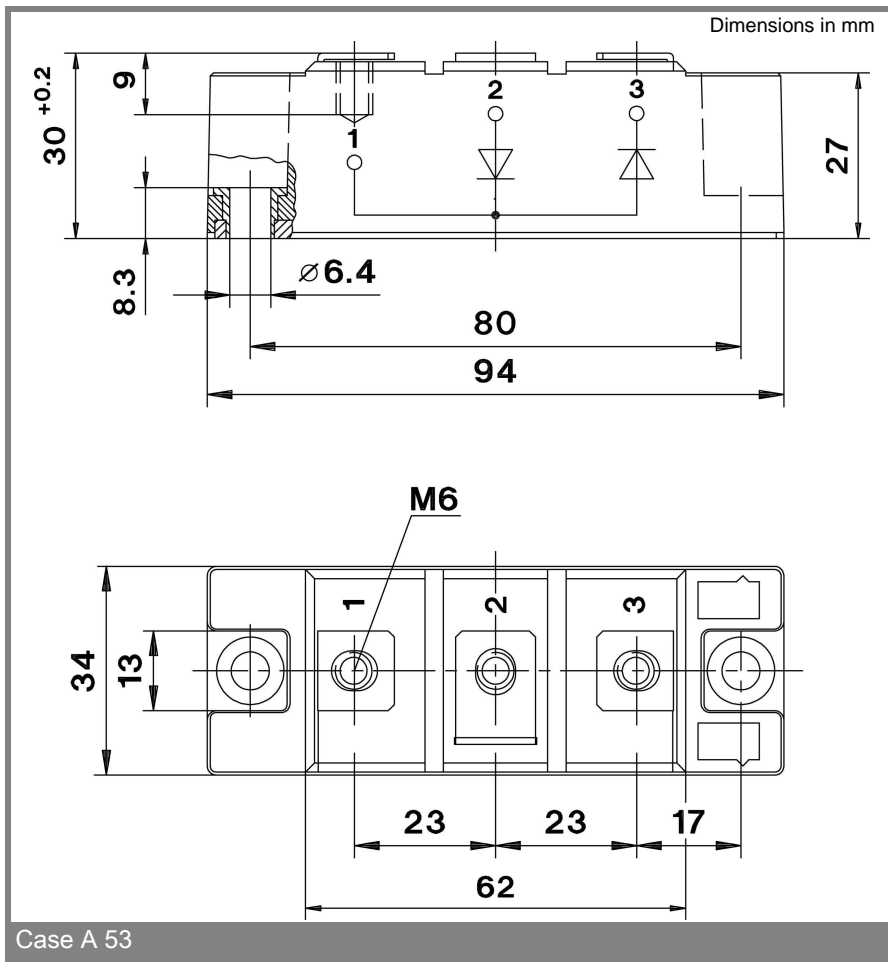
Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; $T_c = 85$ (100) °C	117 (99)	A
I_{FSM}	$T_{vj} = 25$ °C; 10 ms $T_{vj} = 150$ °C; 10 ms	2000 1800	A A
i^2t	$T_{vj} = 25$ °C; 8,3 ... 10 ms $T_{vj} = 150$ °C; 8,3 ... 10 ms	20000 16200	A ² s A ² s
V_F	$T_{vj} = 25$ °C; $I_F = 150$ A	max. 2,2	V
$V_{(TO)}$	$T_{vj} = 150$ °C	max. 1,2	V
r_T	$T_{vj} = 150$ °C	max. 5,5	mΩ
I_{RD}	$T_{vj} = 25$ °C; $V_{RD} = V_{RRM}$	max. 1	mA
I_{RD}	$T_{vj} = 150$ °C; $V_{RD} = V_{RRM}$	max. 40	mA
Q_{rr}	$T_{vj} = 125$ °C; $I_F = 150$ A,	21	μC
I_{RM}	$-di/dt = 1000$ A/μs, $V_R = 600$ V	80	A
t_{rr}		710	ns
E_{rr}		4,5	mJ
$R_{th(j-c)}$	per diode / per module	0,2 / 0,1	K/W
$R_{th(c-s)}$	per diode / per module	0,1 / 0,05	K/W
T_{vj}		- 40 ... + 150	°C
T_{stg}		- 40 ... + 125	°C
V_{isol}	a.c. 50 Hz; r.m.s.; 1 s / 1 min.	4800 / 4000	V~
M_s	to heatsink	5 ± 15%	Nm
M_t	to terminals	5 ± 15%	Nm
a		5 * 9,81	m/s ²
m	approx.	160	g
Case	SKKD	A 53	
	SKMD	A 51	
	SKND	A 52	



SKKD 150F, SKMD 150F, SKND 150F



SKKD 150F, SKMD 150F, SKND 150F



This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.