

SKKD 150F, SKMD 150F, SKND 150F THYRISTOR



SEMIPACK® 2

Fast Diode Modules

SKKD 150F

SKMD 150F

SKND 150F

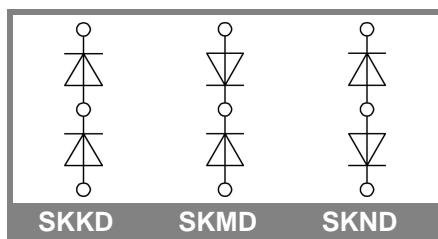
Features

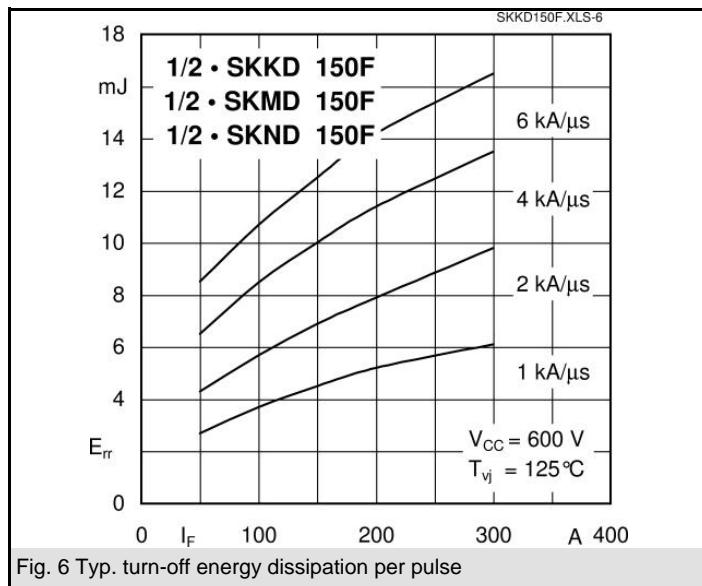
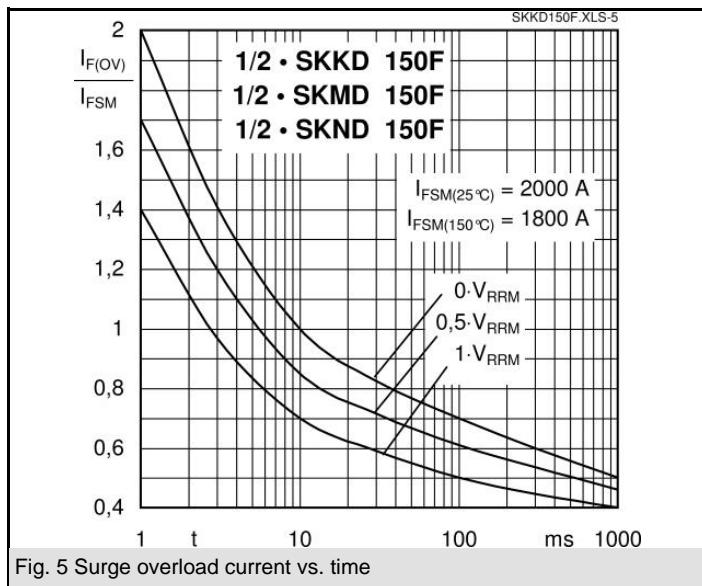
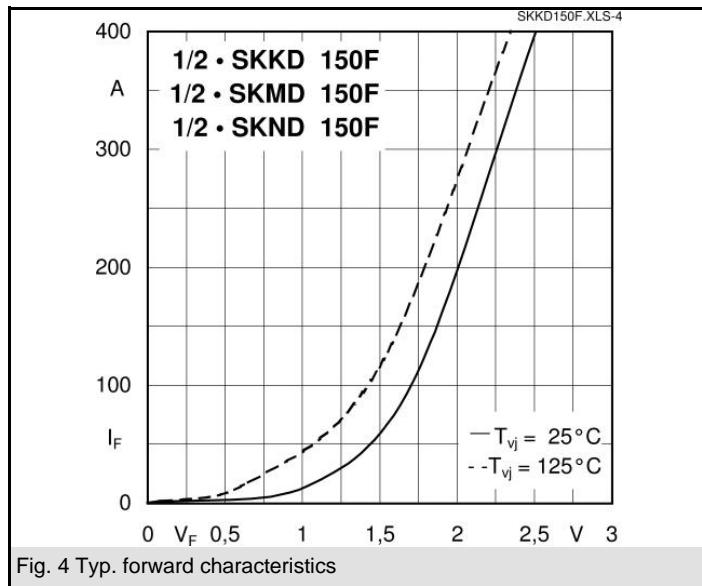
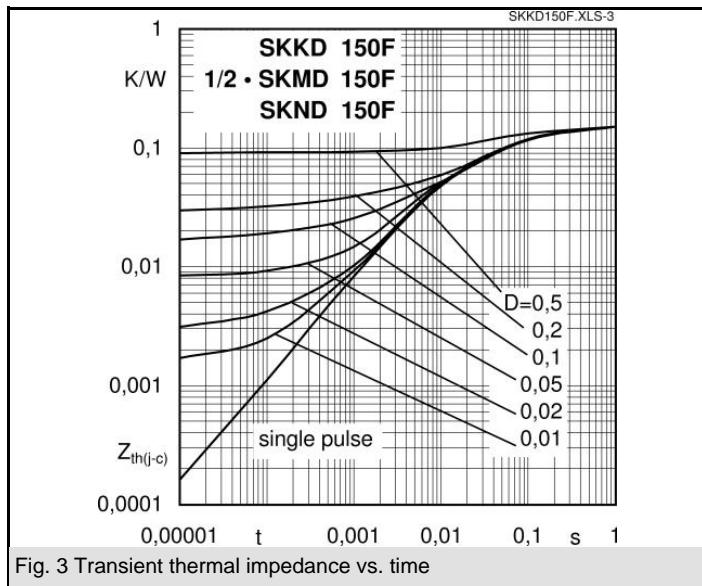
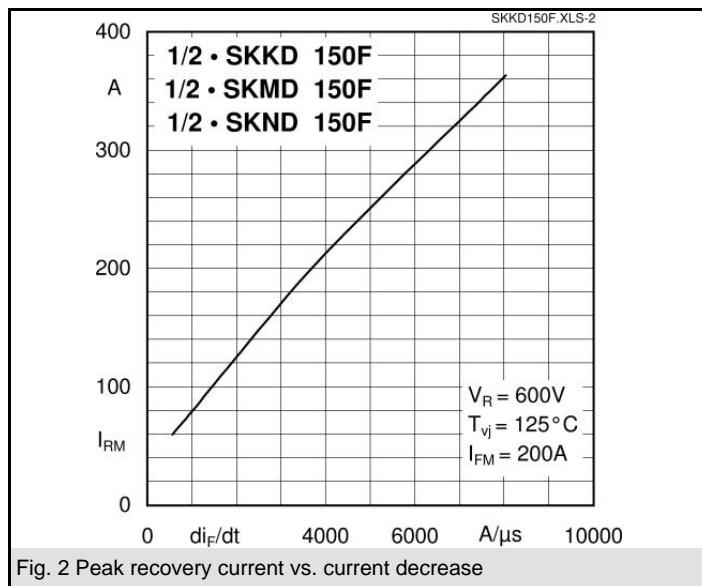
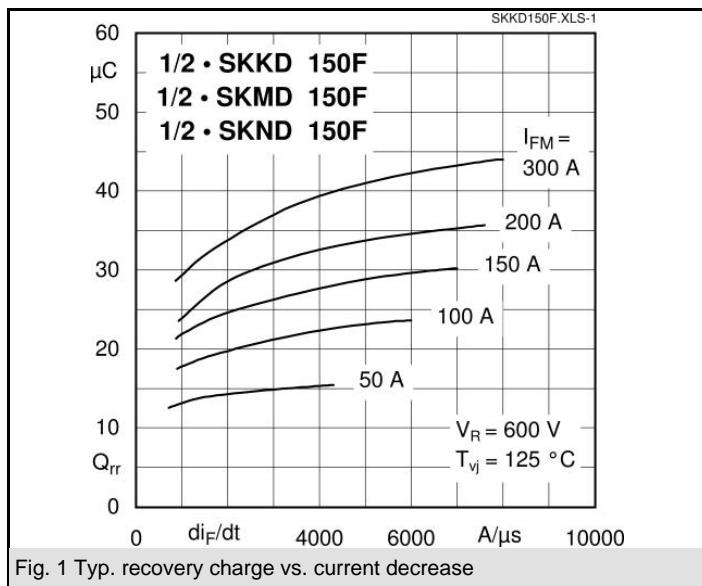
- CAL (controlled axial lifetime) technology, patent No. DE 43 10 44
- Heat transfer through ceramic isolated metal baseplate
- Very short recovery times
- Soft recovery
- Low switching losses
- SKKD half bridge connection
- centre tap connections: SKMD common cathode SKND common anode
- UL recognized,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

Typical Applications

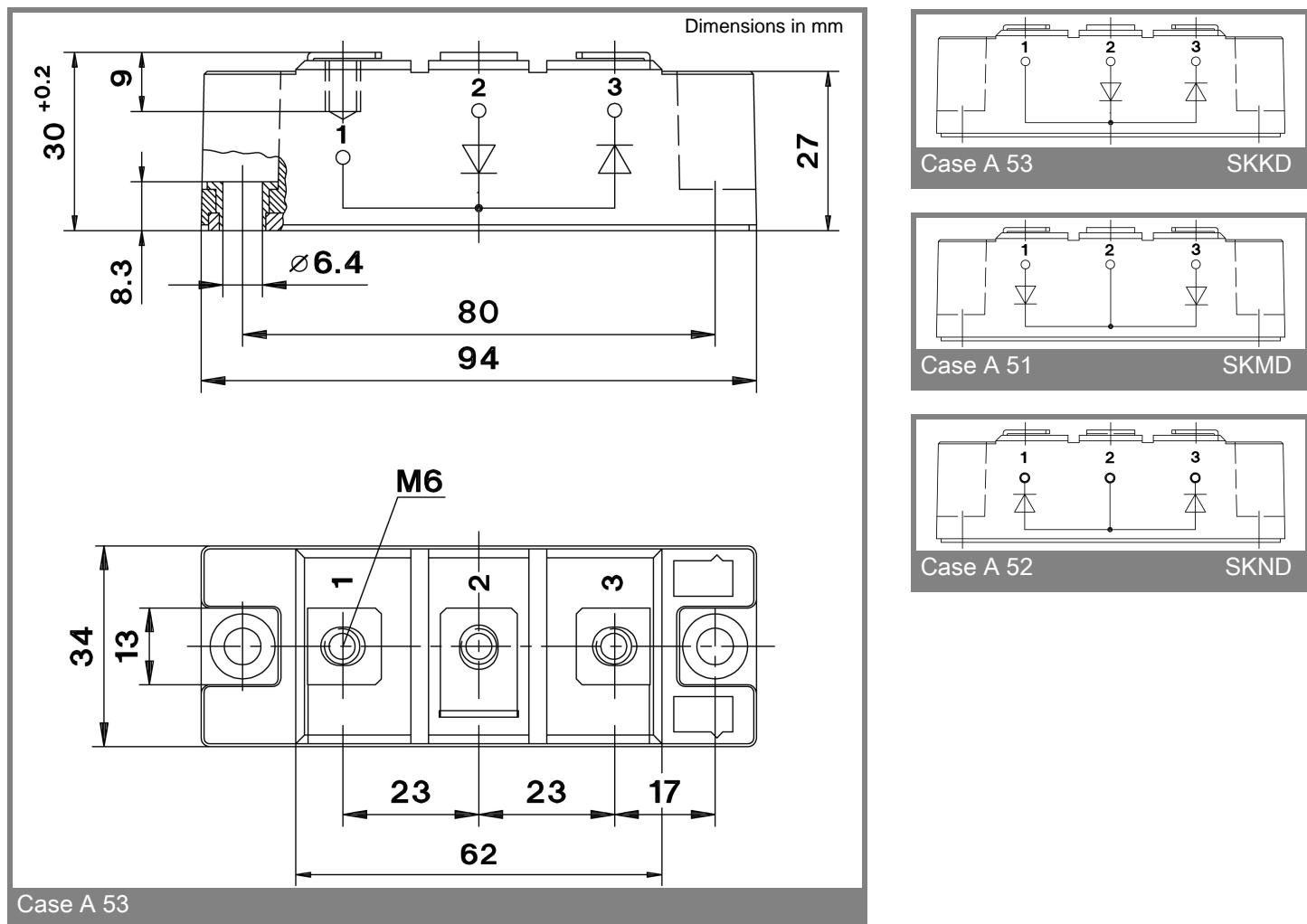
- Self-commutated inverters
- DC choppers
- AC motor speed control
- inductive heating
- Uninterruptible power supplies
- Electronic welders
- General power switching applications

V_{RSM} V 1200	V_{RRM} V 1200	$I_{FRMS} = 220 \text{ A}$ (maximum value for continuous operation) $I_{FAV} = 150 \text{ A}$ (sin. 180; 50 Hz; $T_c = 54^\circ\text{C}$) SKKD 150F12	SKMD 150F12	SKND 150F12
Symbol	Conditions	Values	Units	
I_{FAV}	sin. 180; $T_c = 85$ (100) $^\circ\text{C}$	117 (99)	A	
I_{FSM}	$T_{vj} = 25^\circ\text{C}; 10 \text{ ms}$ $T_{vj} = 150^\circ\text{C}; 10 \text{ ms}$	2000 1800	A A	
i^2t	$T_{vj} = 25^\circ\text{C}; 8,3 \dots 10 \text{ ms}$ $T_{vj} = 150^\circ\text{C}; 8,3 \dots 10 \text{ ms}$	20000 16200	A^2s A^2s	
V_F	$T_{vj} = 25^\circ\text{C}; I_F = 150 \text{ A}$	max. 2,2	V	
$V_{(TO)}$	$T_{vj} = 150^\circ\text{C}$	max. 1,2	V	
r_T	$T_{vj} = 150^\circ\text{C}$	max. 5,5	$\text{m}\Omega$	
I_{RD}	$T_{vj} = 25^\circ\text{C}; V_{RD} = V_{RRM}$	max. 1	mA	
I_{RD}	$T_{vj} = 150^\circ\text{C}; V_{RD} = V_{RRM}$	max. 40	mA	
Q_{rr}	$T_{vj} = 125^\circ\text{C}, I_F = 150 \text{ A}, -di/dt = 1000 \text{ A}/\mu\text{s}, V_R = 600 \text{ V}$	21 80 710 4,5	μC A ns 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	$^\circ\text{C}$	
T_{stg}		- 40 ... + 125	$^\circ\text{C}$	
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 SKMD SKND	A 53 A 51 A 52		





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