SKKD 75F



SEMIPACK[®] 2

Fast Diode Modules

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Features

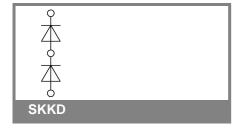
- CAL (controlled axial lifetime) technology, patent no. DE 43 10 44
- Heat transfer through ceramic isolated metal baseplate
- · Very short recovery times
- Soft recovery
- Low switching losses
- UL recognized, file no. E 63 532

Typical Applications

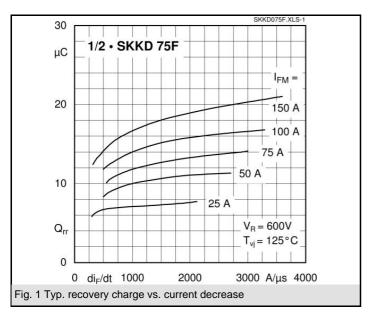
- Self-commutated inverters
- DC choppers
- AC motor speed control
- Inductive heating
- Uninterruptible power supplies
- · Electronic welders
- General power switching applications

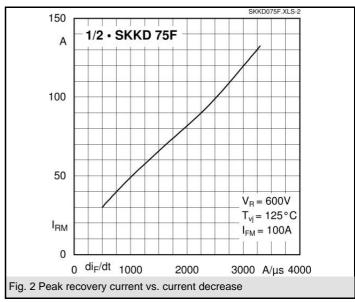
V _{RSM}	V _{RRM}	I_{FRMS} = 110 A (maximum value for continuous operation)	
V	V	I_{FAV} = 75 A (sin. 180; 50 Hz; T_c = 55 °C)	
1200	1200	SKKD 75F12	

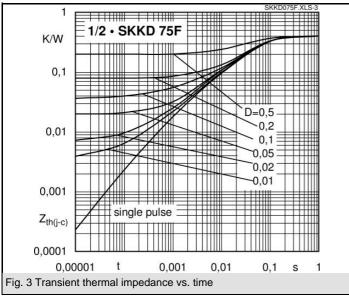
Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; T _c = 85 (100) °C	58 (49)	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	1000	Α
	T _{vi} = 150 °C; 10 ms	900	Α
i²t	$T_{vj} = 25 ^{\circ}\text{C}; 8,3 \dots 10 \text{ms}$	5000	A²s
	T _{vj} = 150 °C; 8,3 10 ms	4000	A²s
V _F	$T_{v_i} = 25 ^{\circ}\text{C}; I_F = 75 \text{A}$	max. 2,2	V
V _(TO)	T _{vj} = 150 °C	max. 1,2	V
r _T	T _{vj} = 150 °C	max. 11	mΩ
I _{RD}	$T_{vj} = 25 ^{\circ}\text{C}; V_{RD} = V_{RRM}$	max. 0,4	mA
I_{RD}	T_{vj} = 150 °C; V_{RD} = V_{RRM}	max. 20	mA
Q _{rr}	T_{v_i} = 125 °C, I_F = 75 A,	10	μC
I _{RM}	$-di/dt = 500 \text{ A/}\mu\text{s}, V_R = 600 \text{ V}$	30	Α
t _{rr}		920	ns
E _{rr}		2,1	mJ
R _{th(j-c)}	per diode / per module	0,4 / 0,2	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 terminal	5 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	160	g
Case		A 23	

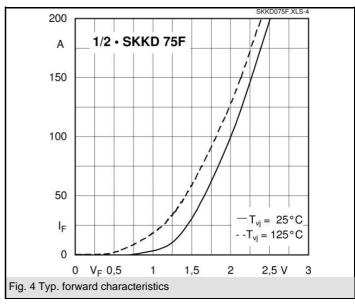


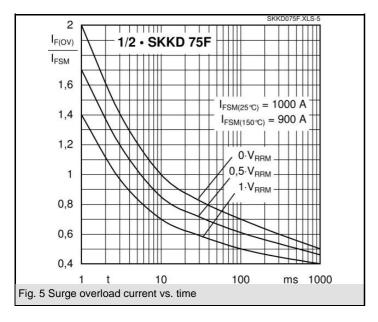
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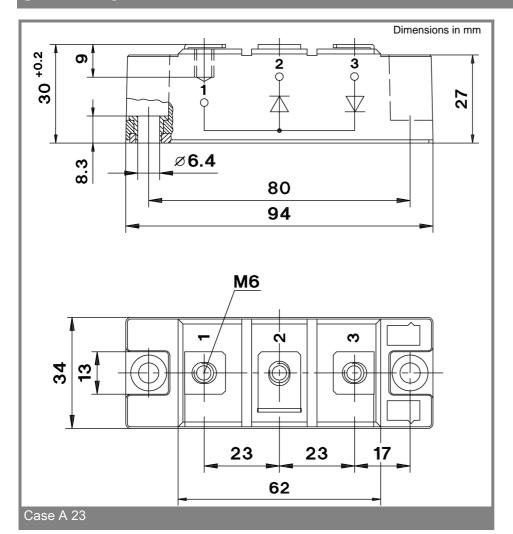


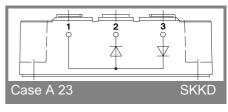






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